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SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) ROTA, SP--ETC(U)
JUL 78

UNCLASSIFIED NL

1 OF 4
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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, Naval shore facility, coastal region, snow depth, cloud cover, Rota, Spain

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
13025	Rota, Spain	36°39'N	06°21'W	86	LERT	08449

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	South bulkhead in weather clearance office	Navy	1958	1966	36°39'N	06°21'W	88	Mercurial	24
2.	North bulkhead in weather clearance office	"	1966	1970	"	"	99	"	24
3.	West bulkhead in weather clearance office	"	1971	1973	"	"	99	"	24
1a.	North bulkhead in weather clearance office	"	1966	1969	"	"	101	Aneroid	24
2a.	West bulkhead in weather clearance office	"	1969		"	"	101	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1959	645 feet south of the runway centerline and near the mid point between taxiway and parking apron	UMQ-5	RD-108	15'	1. Marine barograph 2. Auto met station (AN/GMQ-29) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13B) 5. Theodolite (ML-247) 6. APT (AN/GKR-4)
2.	1977	750 feet north of the runway centerline and 900 feet east of the TACAN trailer	"	AN/GMQ-29	15'	

SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

DIRNAVOCEANMET ltr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

1. Ten years of data will be used as the standard period of record (POR).

2. All available data will be used for extreme values.

3. Summarize (update) every five years.

   a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. The 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 will be included for extreme values.

   b. The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.

   c. The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.

   d. In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWSD), Asheville, N. C. welcomes your comment and criticisms.

NWSD, Federal Building

Asheville, N. C.

PART A WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

PART A ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

WEATHER CONDITIONS

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01	.6	6.5				6.5	16.8	2.6			19.4	155
	04	.6	7.7			.6	7.7	18.7	2.6			21.3	155
	07		9.0				9.0	24.5	2.6			27.1	155
	10		5.8				5.8	23.2	12.3			34.8	155
	13		6.5				6.5	5.8	16.1			20.6	155
	16	.6	3.9				3.9	3.2	10.3			13.5	155
	19		4.5				4.5	6.5	10.3			16.1	155
	22		5.8				5.8	5.8	3.9			9.7	155
TOTALS		.2	6.2			.1	6.2	13.1	7.6			20.3	1240

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01		6.4				6.4	11.3	2.8			14.2	141
	04	1.4	6.4				6.4	11.3	2.8			14.2	141
	07		9.9				9.9	16.3	3.5			19.9	141
	10	.7	8.5				8.5	16.3	10.6			27.0	141
	13		7.1				7.1	4.3	5.7			9.9	141
	16		7.1				7.1	5.0	1.4			6.4	141
	19		7.1				7.1	4.3	4.3			8.5	141
	22	1.4	8.5				8.5	5.7	2.1			7.8	141
TOTALS		.4	7.6				7.6	9.3	4.2			13.5	1128

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	01		4.5				4.5	4.5	6.5			11.0	155
	04		7.1				7.1	6.5	4.5			11.0	155
	07		6.5				6.5	13.5	4.5			18.1	155
	10		3.2				3.2	9.0	15.5			24.5	155
	13		3.9				3.9	1.3	14.2			15.5	155
	16		7.7				7.7		9.7			9.7	155
	19	.6	7.1				7.1		13.5			13.5	155
	22	.6	7.7				7.7	1.3	7.7			9.0	155
TOTALS		.2	6.0				6.0	4.5	9.5			14.0	1240

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01		7.3			.7	7.3	3.3	8.7			12.0	150
	04		6.0				6.0	7.3	11.3			18.7	150
	07		5.3				5.3	20.7	10.7			31.3	150
	10	.7	8.0				8.0	6.0	20.7			26.7	150
	13		7.3				7.3	3.3	16.0			19.3	150
	16		6.7				6.7	1.3	13.3			14.7	150
	19		5.3				5.3	.7	10.7			11.3	150
	22		4.0				4.0	.7	11.3			12.0	150
TOTALS		.1	6.2			.1	6.2	5.4	12.8			18.3	1200

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WEATHER CONDITIONS

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01		5.8				5.8	3.2	9.0			11.6	155
	04		1.9				1.9	3.9	9.0			12.3	155
	07	.6	3.9				3.9	11.6	15.5			27.1	155
	10		3.9				3.9	1.3	19.4		.6	21.3	155
	13		1.9				1.9		16.1			16.1	155
	16		3.9				3.9	.6	16.8			17.4	155
	19		1.9				1.9		16.1			16.1	155
	22		2.6				2.6	.6	13.5			14.2	155
TOTALS		.1	3.2				3.2	2.7	14.4		.1	17.0	1240

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01	.7	1.3				1.3	2.0	26.0			28.0	150
	04	2.0	2.7				2.7	6.0	22.7			28.7	150
	07	1.3	2.0				2.0	16.7	26.0			42.0	150
	10	.7	1.3				1.3	2.0	25.3			27.3	150
	13	.7	1.3				1.3		25.3			25.3	150
	16		.7				.7	.7	27.3			28.0	150
	19	.7	2.0				2.0	.7	29.3			30.0	150
	22							.7	32.7		.7	34.0	150
TOTALS		.8	1.4				1.4	3.6	26.8		.1	30.4	1200

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01							2.6	23.2			25.8	155
	04	.6	.6				.6	4.5	18.7			23.2	155
	07		.6				.6	12.3	27.7			39.4	155
	10		.6				.6	1.3	28.4			29.0	155
	13		1.3				1.3	.6	27.7			28.4	155
	16								20.6			20.6	155
	19		.6				.6		19.4			19.4	155
	22		.6				.6		26.5			26.5	155
TOTALS		.1	.5				.5	2.7	24.0			26.5	1240

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01		.6				.6	1.9	20.0			21.3	155
	04		1.9				1.9	1.9	23.9			25.8	155
	07							13.5	30.3			42.6	155
	10		1.9				1.9	3.2	35.5			38.1	155
	13							.6	27.7			28.4	155
	16								23.9			23.9	155
	19								23.9			23.9	155
	22								25.8			25.8	155
TOTALS			.6				.6	2.6	26.4			28.7	1240

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01		2.0				2.0	2.7	12.0			14.7	150
	04	1.3	2.7				2.7	3.3	12.0			15.3	150
	07	1.3	1.3				1.3	7.3	14.7			21.3	150
	10	.7	2.0				2.0	1.3	16.7			18.0	150
	13		.7				.7		12.0			12.0	150
	16		1.3				1.3	.7	11.3			12.0	150
	19								8.7			8.7	150
	22							1.3	12.0			12.7	150
TOTALS		.4	1.3				1.3	2.1	12.4			14.3	1200

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01		3.2				3.2	3.2	7.1			10.3	155
	04		1.9				1.9	6.5	5.8			12.3	155
	07	.6	.6				.6	9.7	6.5			16.1	155
	10		3.2				3.2	5.2	10.3			15.5	155
	13		3.2				3.2		7.7			7.7	155
	16	.6	5.2				5.2		5.2			5.2	155
	19	.6	3.2				3.2		7.7			7.7	155
	22	.6	2.6				2.6	.6	8.4			9.0	155
TOTALS		.3	2.9				2.9	3.2	7.3			10.5	1240

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01		2.7				2.7	4.7	5.3			10.0	150
	04		2.7				2.7	10.7	6.0			16.7	150
	07	1.3	5.3				5.3	16.0	4.7			20.7	150
	10	1.3	4.0				4.0	8.0	18.0			26.0	150
	13		4.0				4.0	1.3	6.0			7.3	150
	16	.7	6.0				6.0	.7	4.7			5.3	150
	19		4.7				4.7	.7	9.3			10.0	150
	22		2.7				2.7	1.3	6.0			7.3	150
TOTALS		.4	4.0				4.0	5.4	7.5			12.9	1200

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01		7.1				7.1	9.0	3.2			12.3	155
	04		10.3				10.3	12.9	2.6			15.5	155
	07	.6	9.7				9.7	14.2	4.5			18.7	155
	10	1.3	9.7				9.7	14.8	18.1			32.3	155
	13	.6	11.6				11.6	6.5	7.7			14.2	155
	16	.6	10.3				10.3	3.9	5.2			9.0	155
	19	.6	7.7				7.7	7.7	6.5			13.5	155
	22	1.3	11.0				11.0	9.0	.6			9.7	155
TOTALS		.6	9.7				9.7	9.8	6.1			15.7	1240

NAVWEASERVCOM

5701 WEATHER CONDITIONS JAN 68

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WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) ALL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL	.2	6.2			.1	6.2	13.1	7.6			20.3	1240
FEB		.4	7.6				7.6	9.3	4.2			13.5	1128
MAR		.2	6.0				6.0	4.5	9.5			14.0	1240
APR		.1	6.2			.1	6.2	5.4	12.8			18.3	1200
MAY		.1	3.2				3.2	2.7	14.4		.1	17.0	1240
JUN		.8	1.4				1.4	3.6	26.8		.1	30.4	1200
JUL		.1	.5				.5	2.7	24.0			26.5	1240
AUG			.6				.6	2.6	26.4			28.7	1240
SEP		.4	1.3				1.3	2.1	12.4			14.3	1200
OCT		.3	2.9				2.9	3.2	7.3			10.5	1240
NOV		.4	4.0				4.0	5.4	7.5			12.9	1200
DEC		.6	9.7				9.7	9.8	6.1			15.7	1240
TOTALS		.3	4.1			.0	4.1	5.4	13.2		.0	18.5	14608

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WEATHER CONDITIONS
ATMOSPHERIC PHENOMENA

13025 (STATION) ROTA, SPAIN (STATION NAME) 58-77 (YEARS) ALL (MONTH)

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	3.7	41.9		.2	.5	41.9	36.3	31.9			48.4	589
FEB		6.0	43.8			.9	43.8	29.8	24.8			41.2	537
MAR		5.3	38.9				38.9	19.5	23.8			33.8	589
APR		5.8	33.9			.7	33.9	18.2	26.1			33.3	570
MAY		2.7	24.6			.2	24.6	11.4	22.4			25.6	589
JUN		3.7	17.7			.4	17.7	14.9	32.8		.2	36.5	570
JUL		.3	5.1				5.1	13.8	39.9		.5	43.3	589
AUG		.7	6.5			.3	6.5	14.3	33.1			35.3	589
SEP		3.9	17.7				17.7	15.1	26.3			31.9	570
OCT		6.9	30.3				30.3	19.4	21.0		.2	30.2	620
NOV		7.8	39.4			.7	39.4	22.9	24.5			36.4	599
DEC		7.4	43.5		.3	.6	43.5	30.6	29.8			45.0	620
TOTALS		4.5	28.6		.0	.4	28.6	20.5	28.0		.1	36.7	7031

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2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) JANUARY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.0	2.0						1.0	4.0	6.9	12.9			74.3
NNE									2.4	6.5	8.9			82.1
NE									5.4	8.7	5.4			81.5
ENE		.9							8.4	15.9	10.3			64.5
E	2.5	1.3	.6						6.3	14.5	5.0			71.1
ESE	11.9		1.7						10.2	3.4	1.7			76.3
SE	7.9								10.5		5.3			76.3
SSE	19.2	7.7									3.8			69.2
S	15.6	12.5	3.1						6.3	3.1	9.4			56.3
SSW	16.0	10.0					2.0	4.0	8.0	2.0	2.0			60.0
SW	10.0	5.0							3.3	8.3	5.0			68.3
WSW	6.2	1.5	1.5						1.5	3.1	4.6			81.5
W	4.9	2.5	2.5						6.2	2.5	9.9			76.5
WNW	3.6								3.6	3.6	10.7			78.6
NW									4.5	1.5	10.4			83.6
NNW			2.5						5.0	2.5	12.5			77.5
VARIABLE														
CALM		1.2							9.5	14.3	7.1			69.0
TOTAL	49	23	7				1	3	70	92	94			918
% TOTAL	4.0	1.9	.6				.1	.2	5.6	7.4	7.6			74.0

TOTAL NUMBER OF OBSERVATIONS 1,240

NAVWEASERVCOM

5708% FREQ WIND DIR. VS WEATHER JAN 68

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) FEBRUARY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N									6.0	3.0	7.5			83.6
NNE	2.7								2.7	1.4	5.4			87.8
NE	4.5								4.5	10.6	6.1			77.3
ENE									8.3	6.9	8.3			76.4
E	4.9	.8						.8	4.9	4.9	5.7			79.5
ESE	4.5								4.5	1.5	4.5			85.1
SE	10.3								3.4		6.9			82.8
SSE	26.3							5.3			10.5			63.2
S	8.3	11.7							1.7		3.3			75.0
SSW	7.1	10.7						3.6			3.6			78.6
SW	10.9	6.3	7.8						15.6		6.3			65.6
WSW	8.3	8.3	3.3					1.7	13.3	1.7	1.7			68.3
W	5.7	2.3	1.6					.8	6.6	.8				84.4
WNW	1.1	5.4							1.1		1.1			91.3
NW		1.6							4.8	1.6	3.2			88.9
NNW		1.9							5.7	1.9	5.7			84.9
VARIABLE														
CALM									18.7	12.9				71.4
TOTAL	49	30	9					5	70	35	47			905
% TOTAL	4.3	2.7	.8					.4	6.2	3.1	4.2			80.2

TOTAL NUMBER OF OBSERVATIONS 1,128

NAVWEASERVCOM

5708% FREQ. WIND DIR VS WEATHER JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) MARCH (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		1.4								4.1	2.7			91.8
NNE	5.4								1.8	3.6	17.9			75.0
NE	3.9	2.0								3.9	15.7			78.4
ENE	1.9	3.8						1.9	1.9	5.8	9.6			76.9
E	.9								1.7	9.4	6.0			82.1
ESE	2.6								.9	.9	12.1			85.3
SE	6.6	1.6	1.6						1.6		18.0			73.8
SSE	5.6		2.8						2.8	11.1	8.3			72.2
S	2.0	12.2								2.0	18.4			65.3
SSW	8.1	13.5								5.4	16.2			56.8
SW		10.8								2.7	8.1			78.4
WSW	4.6	4.6	3.1						3.1		16.9			67.7
W	4.2	1.2						.6			5.4			89.2
WNW	.9	2.6									4.4			92.1
NW	3.8	2.6									9.0			84.6
NNW	2.7								1.4	2.7	5.5			89.0
VARIABLE														
CALM	3.6	1.7	1.7						8.5	15.3	6.8			62.7
TOTAL	38	31	5					2	15	41	118			1002
% TOTAL	3.1	2.5	.4					.2	1.2	3.3	9.5			80.8

TOTAL NUMBER OF OBSERVATIONS 1,240

NAVWEASERVCOM

5000 % FREQ. WIND DIR. VS WEATHER JAN 68

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) RDTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) APRIL (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		2.5	2.5							2.5				92.5
NNE	2.0		2.0						2.0	2.0	8.0			84.0
NE	10.3	2.6								2.6	2.6			82.1
ENE	1.4								1.4	2.7	5.5			89.0
E	4.4	2.2							2.9	8.8	5.1			77.9
ESE	2.2	1.1							1.1		5.4			91.3
SE	2.3	2.3							2.3	7.0	20.9			67.4
SSE	7.7	15.4							11.5	3.8	30.8			34.6
S	2.1	6.3	2.1						4.2	6.3	22.9			60.4
SSW	8.9	4.4					2.2			2.2	24.4			64.4
SW	3.3	3.3						1.7	1.7	3.3	28.3			63.3
WSW	4.8	4.8								2.4	18.1			69.9
W	2.6	1.5							1.0		14.9			81.0
WNW	2.1	1.0									12.5			84.4
NW	6.9	1.7	1.7						5.2	3.4	6.9			79.3
NNW											4.0			96.0
VARIABLE														
CALM	~~3.3~~	~~3.2~~							~~4.4~~	~~12.1~~	~~17.6~~			~~91.5~~
TOTAL	42	29	4				1	1	23	42	154			923
% TOTAL	3.5	2.4	.3				.1	.1	1.9	3.5	12.8			76.9

TOTAL NUMBER OF OBSERVATIONS 1,200

NAVWEASERVCOM

5708 % FREQ WIND DIR. VS WEATHER — N 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) MAY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											2.9			97.1
NNE										3.0	12.1			84.8
NE									3.6	3.6	14.3			78.6
ENE									3.6	3.6	3.6			89.3
E	1.0	1.0							2.0	12.1	10.1			73.7
ESE	1.4	2.9									10.1		1.4	85.5
SE		2.4						2.4			7.3			90.2
SSE	2.8	5.6									19.4			75.0
S	1.5								4.4		33.8			61.8
SSW	1.1	1.1	2.2						4.5		32.6			59.6
SW	2.4	3.2	1.6							.8	21.8			71.0
WSW	2.5	4.2	.8								20.0			75.0
W	1.0	.5							.5		8.7			89.9
WNW	.9										4.5			94.6
NW	2.1	2.1								2.1	4.2			91.7
NNW											9.4			90.6
VARIABLE														
CALM	~~2.8~~								~~2.8~~	~~2.8~~	~~15.3~~			~~77.8~~
TOTAL	17	18	5					1	14	19	179		1	998
% TOTAL	1.4	1.5	.4					.1	1.1	1.5	14.4		.1	80.5

TOTAL NUMBER OF OBSERVATIONS 1,240

NAVWEASERVCOM

5708 % FREQ. WIND : VS WEATHER JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) JUNE (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		7.7						7.7						92.3
NNE										8.3	8.3			83.3
NE											26.1			73.9
ENE								2.8		8.3	36.1			52.8
E		.9						.9	2.8	10.1	24.8			62.4
ESE	1.2	1.2						2.5	1.2	1.2	8.6			85.2
SE											10.8			89.2
SSE		3.5						1.8		1.8	29.8			66.7
S		1.0							9.9	1.0	48.5			39.6
SSW		2.8						1.4	1.4	1.4	34.7			59.7
SW									1.0	1.0	32.4			65.7
WSW		1.4								.7	25.9			71.9
W	2.0	.5						.5			23.5			74.0
WNW											18.8			81.3
NW											16.7			83.3
NNW											13.3			86.7
VARIABLE														
CALM		1.3						1.3	1.3	6.3	43.8			47.5
TOTAL	5	12						9	17	26	322			818
% TOTAL	.4	1.0						.8	1.4	2.2	26.8			68.2

TOTAL NUMBER OF OBSERVATIONS 1,200

NAVWEASERVCOM

5708 % FREQ. WIND DIR. VS WEATHER JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

12025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) JULY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N											8.3			91.7
NNE											11.1			88.9
NE											28.6			71.4
ENE										8.8	23.5			67.6
E									1.1	6.3	18.9			74.7
ESE		2.1								2.1	12.8			83.0
SE		1.3						1.3	1.3		5.1			92.3
SSE									1.6	6.5	32.3			61.3
S		2.3							2.3	3.5	37.2			55.8
SSW	1.8	1.8							5.5	1.8	38.2			54.5
SW											38.2			61.8
WSW										.9	34.2			64.9
W									.4		26.3			73.3
WNW											16.3			83.8
NW									1.5		9.2			89.2
NNW											17.6			82.4
VARIABLE														
CALM										3.7	28.0			68.3
TOTAL	1	6						1	10	23	298			907
% TOTAL	.1	.5						.1	.8	1.9	24.0			73.1

TOTAL NUMBER OF OBSERVATIONS 1,240

NAVWEASERVCOM

5708 % FREQ. WIND DIR. VS WEATHER JAN 68

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) AUGUST (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		3.2									3.2			93.5
NNE											3.8			96.2
NE											9.4			90.6
ENE										2.4	9.5			88.1
E									3.2	4.2	26.3			66.3
ESE										3.0	14.9			83.6
SE		1.7									27.6			70.7
SSE									5.9	1.5	36.8			57.4
S									4.8	3.6	44.6			47.0
SSW		1.4								4.3	39.1			53.6
SW		1.4									36.5			62.2
WSW		1.9									26.9			71.3
W										.5	28.3			71.2
WNW		1.1									21.6			77.3
NW										4.3	15.2			80.4
NNW											5.6			94.4
VARIABLE														
CALM														
TOTAL		7							11	22	326			877
% TOTAL		.6							.9	1.8	26.3			70.7

TOTAL NUMBER OF OBSERVATIONS 1,240

NAVWEASERVCOM

5700.5 FREQ. WIND DIR. VS WEATHER JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) SEPTEMBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		2.8						2.8			5.6			91.7
NNE											2.7			97.3
NE														100.0
ENE	3.1									3.1	15.6			78.1
E									1.9	4.9	10.7			82.5
ESE									1.1		2.3			96.6
SE		1.7									8.5			89.8
SSE										3.3	23.3			73.3
S		6.3						3.1	4.7	1.6	15.6			70.3
SSW		2.8							2.8	2.8	22.2			72.2
SW									1.5		30.3			68.2
WSW		1.1								1.1	25.5			72.3
W	.4	.4	.4						.4		12.2			86.1
WNW		1.0									3.9			95.1
NW		1.9									1.9			96.2
NNW														100.0
VARIABLE														
CALM	~~X~~	~~1.1~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~2.1~~	~~1.1~~	~~5.3~~	~~21.1~~	~~X~~	~~X~~	~~73.7~~
TOTAL	2	12	1					5	10	15	149			1013
% TOTAL	.2	1.0	.1					.4	.8	1.3	12.4			84.4

TOTAL NUMBER OF OBSERVATIONS 1,200

NAVWEASERVCOM

5708% FREQ WIND DIR. VS WEATHER JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13029 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) OCTOBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		1.6									1.6			96.8
NNE	3.0								1.5	1.5	3.0			91.0
NE	1.9									1.9	7.7			88.5
ENE	1.6	1.6							3.1	9.4	15.6			70.3
E	1.0	2.0							1.0	13.7	9.8			73.5
ESE		2.8						.9		1.9	3.7			91.6
SE	1.0	2.0						1.0			3.0			92.9
SSE	2.9							2.9	2.9		11.8			79.4
S	1.7	3.4							1.7	1.7	17.2			74.1
SSW	2.5										22.5			75.0
SW	3.7	1.9								1.9	5.6			87.0
WSW	4.3	1.4									2.9			91.3
W	.6	3.1							.6	1.9	7.5			86.9
WNW											6.3			93.8
NW		1.7									3.3			95.0
NNW											2.0			98.0
VARIABLE														
CALM	~~1.2~~	~~1.2~~						~~1.2~~		~~3.6~~	~~10.8~~			~~83.1~~
TOTAL	16	20						4	7	32	91			1075
% TOTAL	1.3	1.6						.3	.6	2.6	7.3			86.7

TOTAL NUMBER OF OBSERVATIONS 1,240

NAVWEASERVCOM

5708 % FREQ. WIND DIR VS WEATHER JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) NOVEMBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.0	1.0						1.0		4.8	6.7			85.7
NNE	.7	1.4							.7	4.3	9.9			83.7
NE		1.0							1.9	4.8	9.6			81.7
ENE									6.5	3.2	11.8			78.5
E	.8	1.5						.8	9.0	4.5	9.0			75.2
ESE	1.2	2.4						1.2	1.2		1.2			94.0
SE		5.1									2.6			92.3
SSE	5.6	8.3							2.8		16.7			66.7
S	7.8	13.7	2.0						3.9	3.9	3.9			70.6
SSW		5.9						5.9						94.1
SW											5.9			94.1
WSW		5.7							5.7					94.3
W	1.3	6.7						1.3	2.7		6.7			85.3
WNW		3.0									4.5			92.4
NW		1.4									4.1			94.6
NNW		2.1									6.3			91.7
VARIABLE														
CALM	1.2	2.6	1.2						2.4	2.4	2.6			78.3
TOTAL	12	34	2					5	31	34	87			1009
% TOTAL	1.0	2.8	.2					.4	2.6	2.8	7.3			84.1

TOTAL NUMBER OF OBSERVATIONS 1,200

NAVWEASERVCOM

5200 % FREQ. WIND DIR. VS WEATHER JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) DECEMBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.9	2.9							2.9	5.8	8.7			78.3
NNE	2.2	.7							3.7	3.7	11.0			80.9
NE	3.0	1.0	1.0						2.0	1.0	7.0			86.0
ENE	1.1	1.1							7.6	3.3	7.6			79.3
E	1.1	1.6	.5						7.4	3.7	4.2			82.1
ESE	3.9	5.8						1.0	5.8	1.0	3.9			81.6
SE	4.2	6.9						1.4	1.4	1.4				87.5
SSE	5.4	16.2						8.1	5.4		2.7			73.0
S	9.3	18.5	1.9						25.9		9.3			44.4
SSW	5.4	8.1						2.7	32.4	2.7	2.7			54.1
SW	7.3	17.1	4.9						7.3		12.2			61.0
WSW	6.9	27.6						3.4	10.3		3.4			55.2
W	8.6	8.6	1.2					1.2	7.4	6.2	2.5			71.6
WNW	4.2	6.3							4.2		4.2			81.3
NW	2.3	2.3									2.3			93.2
NNW											7.4			92.6
VARIABLE														
CALM	1.2	8.8	1.2						13.8	3.8	10.0			65.0
TOTAL	43	71	7					8	90	31	75			953
% TOTAL	3.5	5.7	.6					.6	7.3	2.5	6.0			76.9

TOTAL NUMBER OF OBSERVATIONS 1,240

NAVWEASERVCOM

5708 % FREQ WIND DIR. VS WEATHER — JAN 68

2

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 73 - DEC 77 (YEARS) ALL (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.6	1.7	.2					.6	1.5	3.4	6.1			86.7
NNE	1.6	.4	.1						1.8	3.4	8.9			84.6
NE	2.1	.6	.2						2.1	4.1	8.9			82.9
ENE	.7	.7						.3	4.6	6.6	11.7			75.7
E	1.5	1.0	.1					.2	4.1	8.0	10.3			75.5
ESE	2.1	1.7	.1					.5	1.9	1.2	6.8		.1	86.9
SE	2.2	2.2	.1					.6	1.3	.6	9.3			84.9
SSE	4.3	4.1	.2					1.3	2.8	2.6	21.6			65.7
S	3.1	6.1	.5					.3	5.8	2.1	25.6			58.5
SSW	3.8	4.3	.3				.3	1.0	4.3	1.9	24.2			62.1
SW	3.0	3.4	1.2					.1	2.3	1.4	22.0			68.6
WSW	2.5	3.5	.6					.2	1.6	.8	18.8			73.1
W	2.0	1.5	.3					.3	1.4	.6	14.3			80.8
WNW	.9	1.6							.5	.2	8.7			88.1
NW	1.3	1.3	.1						1.5	1.0	6.7			88.6
NNW	.4	.4	.2						1.3	.9	6.8			90.2
VARIABLE														
CALM	~~1.0~~	~~1.6~~	~~.3~~					~~.4~~	~~4.6~~	~~7.6~~	~~17.5~~			~~68.7~~
TOTAL	274	293	40				2	44	368	412	1940		1	11398
% TOTAL	1.9	2.0	.3				.0	.3	2.5	2.8	13.3		.0	78.0

TOTAL NUMBER OF OBSERVATIONS 14,608

NAVWEASERVCOM

5708% FREQ. WIND DIR. VS WEATHER JAN 68

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION	DERIVED FROM DAILY OBSERVATIONS
SNOWFALL*	DERIVED FROM DAILY OBSERVATIONS
SNOW DEPTH	DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.

2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
PRECIPITATION
(FROM DAILY OBSERVATIONS)

13025 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
SNOWFALL	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOW-DEPTH	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	58.1	7.0	2.7	5.8	4.8	8.0	8.0	3.7	2.0					35.0	589	3.15	9.14	.06
FEB	56.2	8.6	2.4	6.1	3.5	9.3	8.6	3.5	1.7					35.2	537	2.76	6.66	.20
MAR	61.1	8.8	1.7	7.8	2.9	6.3	5.6	4.6	1.2					30.1	589	2.55	5.60	.05
APR	66.1	10.0	2.1	5.8	3.5	6.1	3.2	2.8	.4					23.9	570	1.50	4.16	.03
MAY	75.4	7.6	.8	3.2	2.9	5.4	2.2	1.4	1.0					17.0	589	1.38	3.89	.01
JUN	82.3	7.2	1.1	3.3	1.2	2.5	1.8	.4	.4					10.5	570	.57	1.37	.02
JUL	94.9	3.7	.8	.3					.2					1.4	589	.09	1.57	.00
AUG	93.5	4.2	.2	1.0	.2	.3	.3		.2					2.2	589	.12	1.02	.00
SEP	82.3	7.5	1.1	1.9	2.3	2.3	1.1	1.1	.5					10.2	570	.75	3.35	.00
OCT	69.7	8.1	1.9	3.4	3.5	3.1	3.2	4.7	2.3	.2				22.3	620	2.85	9.55	TRACE
NOV	61.4	8.6	4.0	3.7	4.6	5.3	4.7	4.0	3.3	.4				30.0	570	3.51	14.21	.35
DEC	56.3	9.0	2.9	5.6	4.2	7.7	6.5	4.7	2.9	.2				34.7	620	3.83	13.42	.40
ANNUAL	71.4	7.5	1.8	4.0	2.8	4.7	3.8	2.6	1.3	.1				21.0	7002	23.06		

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5792 Daily Amounts Jan. 1969

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOWFALL
(FROM DAILY OBSERVATIONS)

12025 (STATION) ROTA, SPAIN (STATION NAME) 58-77 (YEARS)

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	99.3	.2													589	TRACE	TRACE	.0
FEB	100.0														537	.0	.0	.0
MAR	100.0														589	.0	.0	.0
APR	100.0														570	.0	.0	.0
MAY	100.0														589	.0	.0	.0
JUN	100.0														570	.0	.0	.0
JUL	100.0														589	.0	.0	.0
AUG	100.0														589	.0	.0	.0
SEP	100.0														570	.0	.0	.0
OCT	100.0														620	.0	.0	.0
NOV	100.0														570	.0	.0	.0
DEC	99.7	.3													620	TRACE	TRACE	.0
ANNUAL	100.0	.0													7002	.0		

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DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
SNOW DEPTH
(FROM DAILY OBSERVATIONS)

13025 ROTA, SPAIN 58-77
STATION STATION NAME YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	99.8	.2													589			
FEB	100.0														537			
MAR	100.0														589			
APR	100.0														570			
MAY	100.0														589			
JUN	100.0														570			
JUL	100.0														589			
AUG	100.0														589			
SEP	100.0														570			
OCT	100.0														620			
NOV	100.0														570			
DEC	100.0														620			
ANNUAL	100.0	.0													7002			

NAVWEASERVCOM

5722 Daily Amounts Jan 1969

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

12025 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
58										.76	1.70	2.37	
59	.69	.41	.70	.35	.54	.02	TRACE	.12	.11	1.06	.86	.28	1.06
60	1.01	1.03	.80	.98	.86	.05	.00	TRACE	.25	2.19	.81	.46	2.19
61	.44	.20	1.97	.51	2.01	.13	TRACE	TRACE	.56	1.14	2.55	.97	2.55
62	.97	.52	1.02	.42	.73	.65	.00	TRACE	.50	3.32	2.73	2.27	3.32
63	1.60	.79	.96	1.05	.92	.49	.00	.00	.26	.67	.77	2.53	2.53
64	1.11	.54	.50	.60	1.56	.42	TRACE	TRACE	.14	.07	1.01	1.15	1.56
65	.41	.80	1.34	.20	.01	1.28	.00	.00	.99	.98	.86	.36	1.34
66	1.03	.71	.05	.59	.18	.41	TRACE	.00	1.00	1.17	1.25	.23	1.25
67	.74	1.50	.49	.34	.79	.20	.01	.01	.07	1.48		.33	
68	.06	1.22	.85	.67	.30	.17	.01	.33	.08	1.13	1.43	.71	1.43
69	1.36	1.89	2.08	.80	.29	1.01	.02	TRACE	1.15	2.02	1.84	.68	2.08
70	1.58	.20	.80	.47	.42	.52	.00	TRACE	TRACE	.59	.84	.86	1.58
71	1.82	.17	.59	.87	1.10	.50	TRACE	1.02	TRACE	TRACE	.49	.55	1.82
72	1.06	.63	.65	.55	.20	.17	.04	TRACE	.58	1.65	1.21	2.01	2.01
73	.51	.17	1.06	.16	1.25	.10	TRACE	.02	.00	.59	1.25	1.15	1.25
74	.63	.30	.58	1.25	.10	.40	.01	TRACE	TRACE	.29	1.95	.41	1.95
75	1.52	1.80	.58	.79	.28	.21	TRACE	TRACE	.18	.06	.30	1.33	1.80
76	.63	.64	1.07	.92	1.03	.02	.01	.32	1.29	1.63	.24	1.13	1.63
77	.68	1.08	.20	.02	.06	.47	1.57	TRACE	.12	.77	1.64	1.74	1.74
MEAN	.94	.77	.86	.61	.66	.38	.09	.10	.38	1.08	1.25	1.08	1.84
S. D.	.474	.532	.513	.325	.551	.333	.359	.246	.428	.816	.690	.742	.559
TOTAL OBS.	589	537	589	570	589	570	589	589	570	620	570	620	7002

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5723 Extreme Values Jan 1969

EXTREME VALUES

PRECIPITATION
(FROM DAILY OBSERVATIONS)

13025 ROTA, SPAIN 58-77
STATION STATION NAME YEARS

196111

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
67											1.68 29		PRECIP DAYS
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

13025 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

24 HOUR AMOUNTS IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
58										.0	.0	.0	
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE
61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE
63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
MEAN	TRACE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	TRACE	.00
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	589	537	589	570	589	570	589	589	570	620	570	620	7002

NAVWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

SNOWFALL
(FROM DAILY OBSERVATIONS)

13025 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

196115

24 HOUR AMOUNTS IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
67											.0 29		SNOFALL DAYS
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

12023 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

DAILY SNOW DEPTH IN INCHES

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
58										0	0	0	
59	0	0	0	0	0	0	0	0	0	0	0	0	0
60	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
61	0	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0		0	
68	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0
71	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0
73	0	0	0	0	0	0	0	0	0	0	0	0	0
74	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0	0	0	0	0
77	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S. D.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TOTAL OBS.	589	597	589	570	589	570	589	589	570	620	570	620	7002

NAVWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

SNOW DEPTH
(FROM DAILY OBSERVATIONS)

12023 ROTA, SPAIN 58-77
STATION STATION NAME YEARS

196119

DAILY SNOW DEPTH IN INCHES
/BASED ON LESS THAN FULL MONTHS/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
67											0 29		SNO DPTH DAYS
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5723 Extreme Values Jan 1969

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

13025 — STATION
ROTA, SPAIN — STATION NAME
1959-1977 — YEARS

JANUARY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.48	12	1972			
2	1.58	40	1970			
3	0.74	19	1970			
4	0.42	11	1963			
5	1.23	31	1970			
6	0.50	13	1969			
7	0.66	17	1970			
8	0.60	15	1972			
9	1.36	35	1969			
10	0.43	11	1970			
11	1.11	28	1975			
12	0.86	22	1969			
13	1.14	29	1970			
14	1.03	26	1966			
15	1.60	41	1963			
16	0.93	24	1972	T	T	1960
17	0.97	25	1962			
18	0.32	8	1962			
19	0.38	10	1963			
20	0.37	9	1973			
21	0.68	17	1977			
22	0.46	12	1977			
23	0.78	20	1970			
24	0.44	11	1961			
25	0.30	8	1970			
26	0.58	15	1960			
27	0.42	11	1977			
28	0.38	10	1977			
29	0.63	16	1976			
30	1.82	46	1971			
31	0.74	19	1967			
Monthly	1.82	46	1971	T	T	1960

FEBRUARY
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.31	8	1972			
2	1.89	48	1969			
3	0.64	16	1976			
4	0.41	10	1976			
5	0.63	16	1972			
6	1.80	46	1975			
7	0.41	10	1959			
8	1.05	27	1975			
9	1.04	26	1975			
10	0.57	14	1969			
11	0.58	15	1968			
12	0.39	10	1966			
13	1.50	38	1967			
14	0.47	12	1964			
15	0.71	18	1966			
16	0.79	20	1963			
17	1.22	31	1968			
18	0.55	14	1969			
19	0.44	11	1969			
20	0.68	17	1966			
21	1.08	27	1977			
22	0.53	13	1977			
23	0.38	10	1977			
24	0.77	20	1968			
25	0.52	13	1962			
26	0.90	23	1969			
27	0.35	9	1962			
28	0.61	15	1965			
29	1.16	29	1968			
30						
31						
Monthly	1.89	48	1969			

* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET–SMOS

5724 DAILY AMOUNTS MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

13025 STATION | ROTA, SPAIN STATION NAME | 1959-1977 YEARS

MARCH MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.96	24	1963			
2	0.75	19	1969			
3	0.56	14	1962			
4	0.64	16	1962			
5	0.13	3	1975			
6	0.33	8	1959			
7	0.37	9	1969			
8	0.83	21	1976			
9	0.74	19	1960			
10	1.34	34	1965			
11	1.06	27	1973			
12	0.80	20	1960			
13	0.65	17	1972			
14	0.56	14	1972			
15	0.37	9	1972			
16	0.29	7	1972			
17	0.31	8	1975			
18	0.25	6	1962			
19	1.02	26	1962			
20	0.95	24	1962			
21	1.97	50	1961			
22	1.03	26	1961			
23	0.55	14	1972			
24	1.07	27	1976			
25	0.79	20	1969			
26	2.08	53	1969			
27	0.16	4	1960			
28	0.80	20	1970			
29	0.36	9	1975			
30	0.85	22	1968			
31	0.32	8	1964			
Monthly	2.08	53	1969			

APRIL MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.28	7	1964			
2	0.60	15	1964			
3	0.87	22	1971			
4	0.34	9	1959			
5	0.79	20	1975			
6	0.54	14	1971			
7	0.24	6	1971			
8	0.21	5	1976			
9	1.25	32	1974			
10	0.44	11	1963			
11	0.16	4	1966			
12	0.91	23	1974			
13	0.78	20	1974			
14	0.02	1	1959			
15	0.34	9	1967			
16	0.26	7	1962			
17	0.27	7	1976			
18	0.22	6	1976			
19	0.92	23	1976			
20	0.06	2	1975			
21	0.49	12	1974			
22	0.27	7	1976			
23	0.14	4	1975			
24	0.55	14	1972			
25	0.42	11	1962			
26	0.27	7	1974			
27	0.57	14	1971			
28	0.98	25	1960			
29	0.19	5	1971			
30	0.45	11	1971			
31						
Monthly	1.25	32	1974			

* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET–SMOS

5724 DAILY AMOUNTS MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

13025 — STATION
ROTA, SPAIN — STATION NAME
1959-1977 — YEARS

MAY — MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.29	7	1969			
2	0.86	22	1960			
3	0.19	5	1963			
4	0.22	6	1973			
5	0.22	6	1968			
6	1.03	26	1976			
7	0.39	10	1971			
8	0.30	8	1968			
9	0.23	6	1959			
10	0.33	8	1970			
11	0.79	20	1967			
12	0.22	6	1970			
13	0.22	6	1962			
14	0.42	11	1970			
15	0.68	17	1960			
16	0.48	12	1971			
17	0.23	6	1967			
18	1.10	28	1971			
19	0.33	8	1959			
20	1.25	32	1973			
21	0.54	14	1959			
22	0.09	2	1973			
23	0.34	9	1961			
24	0.04	1	1971			
25	0.28	7	1963			
26	0.92	23	1963			
27	1.15	29	1961			
28	0.09	2	1969			
29	T	T	1966*			
30	2.01	51	1961			
31	1.56	40	1964			
Monthly	2.01	51	1961			

JUNE — MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.47	12	1977			
2	0.05	1	1967			
3	1.28	33	1965			
4	0.50	13	1971			
5	0.27	7	1970			
6	0.17	4	1970			
7	0.52	13	1970			
8	T	T	1970			
9	0.15	4	1969			
10	1.01	26	1969			
11	0.02	1	1961			
12	0.65	17	1962			
13	0.17	4	1962			
14	0.40	10	1974			
15	0.22	6	1974			
16	T	T	1977*			
17	0.33	8	1970			
18	0.11	3	1974			
19	0.27	7	1974			
20	0.21	5	1975			
21						
22	0.02	1	1974			
23	0.07	2	1961			
24	0.02	1	1962			
25	0.26	7	1974			
26	0.10	3	1973			
27	0.06	2	1974			
28	0.42	11	1964			
29	0.01		1964			
30	0.01		1964			
31						
Monthly	1.28	33	1965			

* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET–SMOS

5724 DAILY AMOUNTS MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

13025 — STATION
ROTA, SPAIN — STATION NAME
1959-1977 — YEARS

JULY — MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.57	40	1977			
2	0.01		1967			
3	T	T	1976			
4	T	T	1972			
5	0.02	1	1969			
6	T	T	1977			
7	0.04	1	1972			
8	T	T	1968			
9	T	T	1966			
10	0.01		1968			
11	T	T	1976			
12	T	T	1959			
13	0.01		1974			
14						
15	T	T	1971*			
16	T	T	1976*			
17						
18	T	T	1959			
19						
20						
21	T	T	1959			
22	0.01		1968			
23						
24						
25	0.01		1976			
26						
27						
28						
29						
30						
31	T	T	1975			
Monthly	1.57	40	1977			

AUGUST — MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2	T	T	1975			
3						
4						
5	T	T	1966*			
6	T	T	1973*			
7	T	T	1970			
8	1.02	26	1971			
9	0.01		1967			
10						
11						
12	T	T	1974			
13						
14	T	T	1975*			
15	T	T	1962			
16						
17	T	T	1960			
18						
19						
20	T	T	1979			
21	0.02	1	1976*			
22	0.02	1	1976			
23	0.32	8	1976			
24	0.22	6	1976			
25	T	T	1959			
26	T	T	1959			
27	0.33	8	1968			
28	0.12	3	1959			
29	0.08	2	1968			
30	T	T	1964			
31	T	T	1969*			
Monthly	1.02	26	1971			

* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET–SMOS

5224 DAILY AMOUNTS MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

13025 STATION | ROTA, SPAIN STATION NAME | 1959-1977 YEARS

SEPTEMBER (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.06	2	1968			
2	0.01		1967			
3	0.14	4	1975			
4	T	T	1972			
5	0.02	1	1972			
6	0.58	15	1972			
7	0.01		1972			
8						
9	0.06	2	1965			
10	0.08	2	1964			
11	0.26	7	1963			
12	1.15	29	1969			
13	0.08	2	1969*			
14	0.07	2	1969			
15	0.18	5	1966			
16	T	T	1971*			
17	T	T	1975*			
18	T	T	1977*			
19	0.44	11	1961			
20	0.07	2	1964			
21	0.07	2	1967			
22	0.01		1966*			
23	0.11	3	1959			
24	0.15	4	1965			
25	0.99	25	1965			
26	0.95	24	1965			
27	1.29	33	1976			
28	1.18	30	1976			
29	0.50	13	1961			
30	0.25	6	1960			
31						
Monthly	1.29	33	1976			

OCTOBER (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.88	22	1960			
2	1.15	29	1960			
3	1.17	30	1966			
4	1.06	27	1959			
5	0.46	12	1972			
6	0.94	24	1965			
7	0.56	14	1965			
8	0.59	15	1970			
9	0.41	10	1977			
10	0.79	20	1976			
11	3.32	84	1962			
12	1.07	27	1962			
13	2.35	60	1962			
14	0.69	18	1966			
15	0.86	22	1965			
16	0.73	19	1962			
17	1.53	39	1972			
18	2.02	51	1969			
19	1.65	42	1972			
20	0.34	9	1972			
21	0.75	19	1967			
22	1.33	34	1960			
23	0.79	20	1967			
24	0.98	25	1965			
25	0.40	10	1959			
26	0.22	6	1960			
27	2.19	56	1960			
28	0.62	16	1960			
29	1.63	41	1976			
30	1.14	29	1961			
31	1.13	29	1968			
Monthly	3.32	84	1962			

* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET–SMOS

5724 DAILY AMOUNTS MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

13025 STATION | ROTA, SPAIN STATION NAME | 1958-1977 YEARS

NOVEMBER (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.02	26	1968			
2	1.21	31	1972			
3	1.95	50	1974			
4	0.50	13	1964			
5	1.25	32	1973			
6	1.25	32	1966			
7	1.43	36	1968			
8	0.94	24	1967			
9	0.50	13	1967			
10	0.22	6	1976			
11	0.81	21	1960			
12	0.24	6	1976			
13	2.73	69	1962			
14	0.51	13	1967			
15	1.48	38	1967			
16	2.55	65	1961			
17	1.36	35	1967			
18	1.68	43	1967			
19	1.68	43	1961			
20	1.84	47	1969			
21	0.98	25	1961			
22	1.04	26	1969			
23	0.22	6	1969			
24	1.09	28	1961			
25	1.09	28	1961			
26	0.49	12	1971			
27	0.99	25	1961			
28	1.25	32	1961			
29	1.64	42	1977			
30	1.70	43	1958			
31						
Monthly	2.73	69	1962			

DECEMBER (MONTH)

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.25	32	1963			
2	0.87	22	1963			
3	1.85	47	1958			
4	0.55	14	1963			
5	0.63	16	1958			
6	2.53	64	1963			
7	1.74	44	1977			
8	2.01	51	1972			
9	0.75	19	1972			
10	0.75	19	1970			
11	0.36	9	1975			
12	0.27	7	1975			
13	0.45	11	1958			
14	1.75	44	1958			
15	1.33	34	1975			
16	1.33	34	1963			
17	1.30	33	1963			
18	0.60	15	1973			
19	2.37	60	1958			
20	0.65	17	1973			
21	1.24	31	1958			
22	1.15	29	1964			
23	1.15	29	1973			
24	0.55	14	1976			
25	0.97	25	1961	T	T	1962
26	1.14	29	1962	T	T	1962
27	2.27	58	1962			
28	0.77	20	1970			
29	1.13	29	1976			
30	0.68	17	1969			
31	0.90	23	1961			
Monthly	2.53	64	1963	T	T	1962

* ALSO ON EARLIER YEARS
T – TRACE, AN AMOUNT TOO SMALL TO MEASURE
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET–SMOS

5724 DAILY AMOUNTS MAR 1978

NWSD, Federal Building

Asheville, N. C.

PART C SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

   NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

   A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

   a. Three tables are prepared for all surface winds included, and for all years combined as follows:

      (1) Annual - all hours combined

      (2) By month - all hours combined

      (3) By month - by standard 3-hour groups

   b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

13025 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
58											SSE 34		
59	ESE 40	WSW 28	ESE 40	S 33	S 33	ESE 30	ESE 39	E 39	ESE 31	NW 38	W 53	W 50	W 53
60	NW 35	WSW 40	ESE 43	ESE 35	E 28	E 34	ESE 27	SE 28	ESE 36	SW 32	SW 31	W 44	W 44
61	WSW 33	ESE 31	ESE 37	SW 28	SW 44	ESE 37	ESE 38	E 35	ESE 29	E 30	NNW 37	S 34	SW 44
62	SW 38	S 31	W 36	ESE 35	SW 30	ENE 30	E 26	SE 24	E 32	E 29	W 39	SW 43	SW 43
63	E 49	SW 37	W 39	SSW 41	NE 28	SW 32	E 33	ESE 24	ESE 28	WSW 35	WSW 36	W 41	E 49
64	E 32	W 37	SW 38	SSW 33	E 29	ESE 32	ESE 24	SE 36	SE 34	NE 29	WSW 32	W 32	SW 38
65		SE 31	SE 46	NNW 26	SE 26	SE 31	ESE 29	SE 28	SW 39	SE 33	SSW 47	SSW 35	
66					ESE 31	ESE 34	E 31	E 23	SE 34	S 32	SSW 40	NE 36	
67	SW 32	SW 39	ESE 37	WNW 34	WSW 31	ESE 30	SSE 22	WNW 22	WSW 33	SSE 39	SSE 31	NNE 32	SW 39
68	ESE 29	SSW 39	WSW 36	ESE 35	ESE 30			SE 35		S 32	W 49	WSW 38	
69	WSW 48	SW 41	NE 33	NW 22	WSW 28	SE 26	SE 33	SSE 30	W 32	S 34	W 36	W 41	WSW 45
70	SW 42	ESE 28	W 35	NW 28	SSE 33	SW 31	ESE 27	SSE 23	ESE 36	NE 34	ENE 34	SSW 40	SW 42
71	WNW 40	11 28	24 37	24 35	27 26	24 29	11 30	27 24	13 29	10 32	11 34	26 42	26 42
72	31 44	19 36	12 31	13 34	24 30	26 24	11 31	13 31	16 28	14 37	10 32	22 36	31 44
73	26 44	29 35	12 35	12 32	15 29	12 28	27 23	15 26	04 27	31 32	21 36	26 44	26 44
74	28 47	32 34	14 39	12 32	11 34	14 31	09 31	11 26	14 29	24 27	16 32	11 29	28 47
75	17 48	11 48	23 51	29 27	11 93	09 33	25 29	27 28	11 30	13 36	02 36	31 43	23 51
76	29 31	11 42	33 48	22 34	13 26	12 34		14 34	12 30	30 55	27 34	23 33	
77	27 38	19 44	11 35	12 25	30 28	18 33	32 55	01 26	12 33	22 37	19 48	26 42	32 55
MEAN	38.9	39.9	38.4	31.6	30.4	31.1	31.1	28.5	31.7	34.4	37.6	38.7	45.3
S. D.	6.088	6.005	4.840	4.667	4.112	3.096	7.734	5.125	3.272	5.955	6.549	5.386	4.850
TOTAL OBS.	527	509	553	539	589	540	521	589	538	589	599	587	6680

NAVWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

SURFACE WINDS
(FROM DAILY OBSERVATIONS)

12025 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

196107

DAILY PEAK GUSTS IN KNOTS
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
58										SE 28		WNW 58	WINDS
										1		27	DAYS
65	WSW 37												WINDS
	17												DAYS
66	SW 28	W 49	E 30	S 32									WINDS
	19	23	26	26									DAYS
68						ESE 25	SE 31		WNW 25				WINDS
						16	18		26				DAYS
76							14 28						WINDS
							22						DAYS
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5723 Extreme Values Jan 1969

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6	3.2	2.6	.6								9.0	5.2
NNE	.6	1.9	1.3									3.9	5.5
NE	1.3	3.2	1.9									6.5	5.3
ENE	5.2	6.5	.6									12.3	4.0
E	11.6	5.2	.6									17.4	3.4
ESE	.6	1.3	1.9	1.9								5.8	8.9
SE	1.3	1.3	1.3									3.9	5.2
SSE				1.3								1.3	14.5
S			.6									.6	9.0
SSW	.6	.6		.6	.6							2.6	10.0
SW		.6	2.6		.6							3.9	9.0
WSW		.6	3.2			.6						4.5	10.6
W	1.3	2.6	1.3									5.2	5.3
WNW		.6	1.3	.6	.6							3.2	11.6
NW	1.3	3.2	1.3				.6					6.5	7.8
NNW	.6	.6	.6									1.9	4.7
VARBL													
CALM												11.6	
	27.1	31.6	21.3	5.2	1.9	.6	.6					100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS)

04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	5.2	1.3	1.3								8.4	5.9
NNE	1.3	2.6	3.9									7.7	6.3
NE	3.9	2.6	2.6									9.0	4.6
ENE	8.4	4.5	.6									13.5	3.2
E	11.6	5.8	.6	.6								18.7	3.5
ESE	.6	1.9	.6	1.3								4.5	8.0
SE	.6		.6	.6								1.9	8.3
SSE			1.3									1.3	9.5
S		.6		.6	.6							1.9	11.7
SSW	.6			1.3		.6	.6					3.2	16.2
SW		1.9	2.6									4.5	6.9
WSW		1.3	1.9	.6	.6							4.5	9.9
W	.6			.6								1.3	7.5
WNW	.6		.6	.6								1.9	8.0
NW	.6	.6	2.6		.6							4.5	8.1
NNW	1.3	1.9	.6									3.9	5.0
VARBL													
CALM												9.0	
	31.0	29.0	20.0	7.7	1.9	.6	.6					100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	3.9	3.2	1.3								9.7	6.7
NNE	3.2	5.8	5.8	.6								15.5	6.0
NE	1.9	1.9	3.9									7.7	5.7
ENE	4.5	5.8										10.3	3.7
E	8.4	9.0		1.3								18.7	4.2
ESE	2.6	.6	.6	1.3								5.2	6.3
SE	.6	.6		.6								1.9	7.3
SSE	.6				.6							1.3	9.5
S				.6	.6							1.3	16.5
SSW		1.3										1.3	4.5
SW		.6	1.3	2.6	.6							5.2	11.8
WSW	1.3	.6	1.3	.6	.6							4.5	8.3
W			2.6	.6								3.2	8.6
WNW	.6		1.3									1.9	6.3
NW	1.3	.6	1.9	.6								4.5	6.4
NNW		1.3										1.3	5.0
VARBL													
CALM												6.5	
	26.5	32.3	21.9	10.3	2.6							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS)

10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	3.9	1.3	.6								7.1	5.6
NNE	2.6	5.8	1.9	1.3								11.6	6.2
NE	4.5	5.2	5.8									15.5	5.6
ENE	5.8	5.8	3.2									14.8	4.6
E	7.7	5.8	1.3									14.8	3.8
ESE		2.6	.6	.6								3.9	6.5
SE	2.6			.6								3.2	5.0
SSE				.6	.6							1.3	16.5
S			.6	.6								1.3	11.0
SSW	.6	.6	.6	.6	.6							3.2	9.6
SW	.6	.6	2.6		.6							4.5	8.9
WSW		1.3	.6			.6						2.6	11.0
W	.6	.6	1.3	.6								3.2	7.8
WNW	1.3		.6	.6								2.6	7.8
NW	.6	1.3		1.3								3.2	7.4
NNW	.6	1.3	.6									2.6	5.3
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	4.5	
	29.0	34.8	21.3	7.7	1.9	.6						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	4.5	2.6	1.3								10.3	5.9
NNE	1.3	3.2	6.5	2.6	.6	.6						14.8	9.3
NE		4.5	3.2	1.9								9.7	7.4
ENE	.6	2.6										3.2	5.2
E	3.9	1.3	4.5	1.3	1.3							12.3	7.5
ESE	.6	.6		3.9								5.2	10.8
SE	.6	.6	.6									1.9	6.3
SSE	.6	2.6	.6	1.3								5.2	7.0
S	.6	1.3	.6	.6			.6					3.9	10.8
SSW	1.3	1.3	1.3	1.9								5.8	7.3
SW	.6	1.3	.6									2.6	5.5
WSW		.6	1.9	1.3								3.9	9.8
W	1.3	2.6	1.9	1.3	.6	.6						8.4	9.1
WNW	1.3	.6	1.9	1.3								5.2	8.0
NW		1.3	1.9	1.3								4.5	9.1
NNW			.6	.6								1.3	11.0
VARBL													
CALM												1.9	
	14.8	29.0	29.0	20.6	2.6	1.3	.6					100.0	7.9

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	3.9	2.6	.6								7.7	6.8
NNE	.6	5.8	2.6	1.9	.6							11.6	7.2
NE	.6	1.9	1.3	1.9								5.8	7.8
ENE		1.3	1.3									2.6	6.0
E			.6	2.6								3.2	13.0
ESE			2.6	1.3	1.3							5.2	12.6
SE		1.9	1.3	1.3								4.5	9.1
SSE		.6	1.9									2.6	6.8
S	.6	1.3	2.6	1.3								5.8	8.1
SSW	1.3	2.6	1.3	1.3	.6							7.1	7.7
SW	.6	.6	3.2	1.3								5.8	8.2
WSW		1.3	3.9	2.6								7.7	8.7
W	.6	3.9	5.8	2.6	.6	.6						14.2	9.4
WNW	.6	1.9	1.3	1.9	.6							6.5	8.6
NW			1.9	1.3								3.2	11.0
NNW		1.9	1.3									3.2	6.4
VARBL													
CALM												3.2	
	5.8	29.0	35.5	21.9	3.9	.6						100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS)

19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	4.5	1.3									7.7	4.6
NNE	1.3	6.5	1.3									9.0	4.7
NE	.6	1.3	1.3									3.2	6.2
ENE	.6	.6										1.3	3.5
E	1.3	1.3	1.3	.6								4.5	5.9
ESE		1.9	1.3	1.9								5.2	9.0
SE	.6			1.3								1.9	9.3
SSE	1.9		.6	1.3								3.9	6.3
S		1.9	.6									2.6	6.3
SSW	1.3	1.9	1.9	.6								5.8	6.3
SW		1.9	.6	2.6	.6							5.8	10.9
WSW	.6	1.9	5.2									7.7	7.3
W	3.2	5.2	1.3	.6								10.3	5.3
WNW	3.2	4.5	1.9		1.3							11.0	6.3
NW	4.5	1.3	1.3	.6								7.7	4.9
NNW	4.5	1.3										5.8	2.9
VARBL													
CALM												6.5	
	25.8	36.1	20.0	9.7	1.9							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS)

22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.2	1.3	.6									5.2	3.8
NNE	1.9	1.9	1.3									5.2	4.6
NE	.6	1.3										1.9	4.3
ENE	7.1	3.2	.6									11.0	3.6
E	5.8	4.5	1.3	1.3								12.9	4.8
ESE	.6	1.9		.6								3.2	6.2
SE	1.3	1.3	.6	1.9								5.2	7.4
SSE													
S	.6	1.3	.6			.6						3.2	8.2
SSW	.6	.6		1.3	.6							3.2	11.4
SW	1.3	1.9	2.6	.6								6.5	7.0
WSW		1.3	3.9		1.3							6.5	9.7
W	.6	3.2	1.3	1.3								6.5	7.2
WNW	1.9		1.3				.6					3.9	8.5
NW	1.9	5.2	1.3	.6								9.0	5.4
NNW	3.9	1.3	.6									5.8	3.4
VARBL													
CALM												11.0	
	31.6	30.3	16.1	7.7	1.9	.6	.6					100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.7	3.8	1.9	.7								8.1	5.7
NNE	1.6	4.2	3.1	.8	.2	.1						9.9	6.6
NE	1.7	2.7	2.5	.5								7.4	5.9
ENE	4.0	3.8	.8									8.6	4.0
E	6.3	4.1	1.3	1.0	.2							12.8	4.7
ESE	.6	1.4	1.0	1.6	.2							4.8	8.7
SE	1.0	.7	.6	.8								3.1	7.2
SSE	.4	.4	.6	.6	.2							2.1	8.5
S	.2	.8	.7	.5	.2	.1	.1					2.6	9.5
SSW	.8	1.1	.6	1.0	.3	.1	.1					4.0	8.9
SW	.4	1.2	2.0	.9	.3							4.8	8.7
WSW	.2	1.1	2.7	.6	.3	.2						5.2	9.1
W	1.0	2.3	1.9	1.0	.2	.2						6.5	7.7
WNW	1.2	1.0	1.3	.6	.3		.1					4.5	7.9
NW	1.3	1.7	1.5	.7	.1		.1					5.4	7.0
NNW	1.4	1.2	.6	.1								3.2	4.7
VARBL													
CALM												6.8	
	24.0	31.5	23.1	11.4	2.3	.6	.3					100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.8	.7	1.4									5.0	4.7
NNE	1.4	2.8	1.4									5.7	5.3
NE	.7	2.1	.7									3.5	4.8
ENE	4.3	2.1										6.4	3.0
E	3.5	6.4	1.4	2.1	.7	.7	.7					15.6	8.3
ESE	.7	.7	2.1	1.4	.7							5.7	10.0
SE		2.1		.7								2.8	7.3
SSE			.7	.7								1.4	10.5
S	2.1	2.1	.7									5.0	4.1
SSW		1.4		.7								2.1	7.3
SW	2.1	1.4	1.4									5.0	5.3
WSW		1.4	1.4	.7								3.5	8.4
W	2.8	.7	2.1	2.1	.7							8.5	7.8
WNW		2.1	2.8	.7	.7							6.4	9.2
NW	2.1	2.1	2.1	.7								7.1	6.1
NNW	2.1	4.3	2.1	2.1								10.6	6.3
VARBL													
CALM												5.7	
	24.8	32.6	20.6	12.1	2.8	.7	.7					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 141

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.5	3.5	3.5									10.6	4.9
NNE		5.0	2.1	.7								7.8	6.7
NE		3.5		.7								4.3	6.2
ENE	2.8	4.3	.7									7.8	4.4
E	6.4	3.5	2.1	2.1		1.4						15.6	7.2
ESE	2.1	1.4										3.5	3.2
SE		.7										.7	4.0
SSE	1.4	.7		1.4								3.5	7.0
S	.7	.7	2.1			.7						4.3	9.5
SSW		1.4	1.4									2.8	7.3
SW	.7	3.5	2.8	.7								7.8	7.4
WSW			1.4									1.4	8.5
W	1.4	.7		3.5								5.7	9.4
WNW	.7	.7		1.4	.7							3.5	9.6
NW	.7	1.4	3.5	.7								6.4	7.6
NNW	.7	2.8	.7	.7								5.0	6.4
VARBL													
CALM												9.2	
	21.3	34.0	20.6	12.1	.7	2.1						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	3.5	.7	.7								5.7	6.0
NNE	2.1	2.8	2.8	.7								8.5	5.8
NE	4.3	4.3	2.1	.7								11.3	5.3
ENE	5.0	5.0	1.4									11.3	4.0
E	3.5	6.4		.7		1.4	.7					12.8	7.6
ESE	.7	1.4		1.4								3.5	8.0
SE													
SSE			.7									.7	7.0
S	1.4	2.8	.7	1.4								6.4	6.1
SSW			1.4									1.4	8.0
SW			2.1	.7	.7							3.5	12.0
WSW		1.4		1.4	.7							3.5	10.6
W	.7	.7	2.8	2.1								6.4	9.6
WNW		2.1	2.1	1.4								5.7	8.1
NW		1.4	2.1	.7	.7							5.0	9.3
NNW	1.4	4.3										5.7	4.3
VARBL													
CALM												8.5	
	19.9	36.2	19.1	12.1	2.1	1.4	.7					100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.1	2.1	1.4	.7								6.4	5.6
NNE	1.4	1.4	5.0	2.8								10.6	7.9
NE	1.4	7.1	3.5	.7								12.8	6.1
ENE	4.3	5.7		.7								10.6	4.4
E	1.4	5.0	.7	.7		.7						8.5	7.2
ESE	.7		2.1	1.4			.7					5.0	12.4
SE	.7		.7									1.4	6.0
SSE			.7									.7	10.0
S	.7		1.4	.7								2.8	8.0
SSW		2.1	.7	.7								3.5	7.2
SW	.7		.7	1.4								2.8	8.8
WSW			2.8	.7								3.5	9.2
W	.7	2.1	1.4	3.5	.7							8.5	9.7
WNW		2.8		2.8								5.7	8.9
NW	.7	.7	1.4	1.4	1.4							5.7	11.3
NNW	1.4		.7	.7								2.8	6.8
VARBL													
CALM												8.5	
	16.3	29.1	23.4	19.1	2.1	.7	.7					100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		2.8	2.1	.7								5.7	6.9
NNE		1.4	7.1	1.4	.7							10.6	9.5
NE			1.4	1.4								2.8	10.5
ENE	.7	4.3	.7	1.4								7.1	6.7
E	.7	1.4	.7	5.0		.7	.7					9.2	13.0
ESE			2.8	.7	.7	.7	.7					5.7	15.0
SE	.7	.7	1.4	1.4								4.3	9.7
SSE	.7	.7	1.4	.7								3.5	8.2
S	2.1	4.3	.7	.7								7.8	5.5
SSW			.7	1.4								2.1	11.0
SW		.7		5.7								6.4	12.1
WSW		.7	1.4	1.4								3.5	8.6
W	1.4	2.1	3.5	6.4	.7							14.2	10.0
WNW	.7		1.4	2.1	2.1							6.4	12.0
NW		.7		1.4	.7	.7						3.5	14.8
NNW	.7	.7	1.4	.7		.7						4.3	9.7
VARBL													
CALM												2.8	
	7.8	20.6	27.0	32.6	5.0	2.8	1.4					100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | FEB (MONTH)

ALL WEATHER (CLASS) | 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		.7	1.4	1.4								3.5	10.6
NNE	.7		2.1	1.4								4.3	9.3
NE	.7	.7	2.1	2.1								5.7	9.4
ENE	.7		2.1		.7							3.5	9.2
E	.7	1.4	1.4	2.1	.7	.7						7.1	11.2
ESE				2.8	1.4	1.4						5.7	17.0
SE		.7	.7	.7	.7							2.8	11.5
SSE	.7	1.4		.7								2.8	7.0
S		2.8	2.1	.7								5.7	7.8
SSW		1.4	1.4	.7								3.5	8.0
SW	1.4	3.5	3.5	1.4								9.9	7.5
WSW		.7	1.4	5.0	1.4							8.5	12.2
W		3.5	5.7	5.7	.7							15.6	10.1
WNW	1.4	1.4	5.7	5.0	2.1							15.6	10.5
NW		.7	1.4		.7							2.8	10.5
NNW		.7	.7									1.4	7.0
VARBL													
CALM												1.4	
	6.4	19.9	31.9	29.8	8.5	2.1						100.0	10.0

TOTAL NUMBER OF OBSERVATIONS 141

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	2.8	.7	.7								5.0	6.0
NNE	.7	1.4	.7	.7								3.5	6.4
NE	2.8	.7		.7								4.3	4.2
ENE			.7									.7	8.0
E		.7	1.4	2.1	1.4							5.7	12.1
ESE		.7	2.1	3.5		.7						7.1	12.5
SE	1.4	2.1	.7	.7								5.0	5.7
SSE			.7									.7	7.0
S	2.1	1.4	1.4	1.4								6.4	6.7
SSW	1.4											1.4	3.0
SW	1.4	1.4	1.4	1.4	.7							6.4	8.8
WSW	2.1	2.8	3.5	1.4								9.9	7.2
W	2.1	4.3	7.1	4.3	.7							18.4	8.6
WNW	3.5	3.5	4.3	1.4								12.8	6.2
NW	.7	3.5	.7	.7								5.7	5.9
NNW		1.4	1.4									2.8	7.3
VARBL													
CALM												4.3	
	19.1	27.0	27.0	19.1	2.8	.7						100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	3.5	.7	.7								5.7	5.5
NNE	.7		.7									1.4	5.5
NE	.7		1.4									2.1	6.0
ENE	.7	1.4	1.4									3.5	5.6
E	2.8	1.4	2.1	3.5	2.1							12.1	9.4
ESE	3.5	2.1	3.5		1.4	.7						11.3	7.7
SE	.7	1.4		1.4								3.5	7.2
SSE													
S	.7	2.8	.7									4.3	4.8
SSW	1.4	.7	.7									2.8	4.0
SW	.7	.7	.7	1.4								3.5	9.2
WSW		5.0	2.8	.7								8.5	7.0
W	2.1	1.4	2.1	3.5								9.2	8.9
WNW	1.4	1.4	5.0	.7	.7							9.2	8.4
NW	.7	3.5	2.8	1.4								8.5	7.1
NNW	1.4	2.1		1.4								5.0	6.3
VARBL													
CALM												9.2	
	18.4	27.7	24.8	14.9	4.3	.7						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

ALL WEATHER (CLASS)

ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	2.5	1.5	.6								5.9	5.9
NNE	.9	1.9	2.7	1.0	.1							6.6	7.4
NE	1.3	2.3	1.4	.8								5.9	6.3
ENE	2.3	2.6	.9	.3	.1							6.4	4.9
E	2.4	3.3	1.2	2.3	.6	.7	.3					10.8	9.0
ESE	1.0	.8	1.6	1.4	.5	.4	.2					5.9	10.9
SE	.4	1.0	.4	.6	.1							2.6	7.8
SSE	.4	.4	.5	.4								1.7	7.8
S	1.2	2.1	1.2	.6		.1						5.3	6.4
SSW	.4	.9	.8	.4								2.5	7.1
SW	.9	1.4	1.6	1.6	.2							5.7	8.6
WSW	.3	1.5	1.9	1.4	.3							5.3	8.9
W	1.4	2.0	3.1	3.9	.4							10.8	9.3
WNW	1.0	1.8	2.7	2.0	.8							8.2	9.0
NW	.6	1.8	1.8	.9	.4	.1						5.6	8.4
NNW	1.0	2.0	.9	.7		.1						4.7	6.5
VARBL													
CALM												6.2	
	16.8	28.4	24.3	19.0	3.5	1.4	.4					100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 1128

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.2	2.6	.6									6.5	4.0
NNE	.6		1.9									2.6	5.8
NE	.6	1.9	.6									3.2	5.0
ENE	.6	1.9										2.6	4.0
E	3.9	5.2	3.9	.6								13.5	5.6
ESE	1.9	.6	2.6	5.2	1.3							11.6	10.0
SE	.6	.6	.6	1.9	1.3							5.2	11.8
SSE		1.3		.6								1.9	8.7
S	1.3	3.2		.6								5.2	5.3
SSW	.6		.6									1.3	5.0
SW	1.3	2.6										3.9	4.3
WSW	.6	.6	1.3	.6								3.2	7.4
W	1.3	1.3	1.3	3.2								7.1	8.6
WNW	1.3	3.9	3.9	.6	.6	.6						11.0	8.0
NW	.6	1.9	1.3	1.3								5.2	7.1
NNW	.6	2.6	3.9	1.3								8.4	7.7
VARBL													
CALM												7.7	
	19.4	30.3	22.6	16.1	3.2	.6						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.2	4.5	1.9									9.7	4.8
NNE	.6	3.2	1.3									5.2	5.0
NE	.6	1.9	1.3									3.9	5.2
ENE	3.9	5.2	1.3									10.3	4.1
E	5.8	8.4	3.9	.6	.6							19.4	5.2
ESE	1.9	.6	1.9	1.9								6.5	7.5
SE			1.3	1.9								3.2	12.6
SSE	1.3			.6								1.9	6.0
S			.6	.6								1.3	5.5
SSW		1.9		.6								2.6	7.5
SW													
WSW		1.3	.6	.6								2.6	8.0
W	1.3	1.3	1.9	1.9								6.5	8.0
WNW	.6	1.9	2.6	1.9								7.1	8.2
NW	1.3	3.2	2.6	.6	.6							8.4	7.4
NNW		3.9	1.9	1.3								7.1	7.9
VARBL													
CALM												4.5	
	20.6	38.1	23.2	12.3	1.3							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.2	5.2	1.9									10.3	4.7
NNE	.6	3.9	2.6									7.1	6.0
NE	3.2	3.2	1.9									8.4	4.6
ENE	3.2	3.2										6.5	3.4
E	8.4	5.8	.6	.6								15.5	4.1
ESE	1.3	.6	2.6	2.6								7.1	8.7
SE		.6		.6								1.3	9.5
SSE			.6	.6								1.3	12.0
S				1.3								1.3	13.0
SSW		1.9	.6									2.6	5.8
SW		.6		.6								1.3	10.0
WSW				1.3								1.3	13.5
W	.6	1.9			.6							3.2	7.0
WNW	.6	.6	3.2	1.3								5.8	8.7
NW	.6	1.3	3.9	1.3								7.1	8.2
NNW	2.6	3.9	.6	1.3								8.4	5.6
VARBL													
CALM												11.6	
	24.5	32.9	18.7	11.6	.6							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		3.2	4.5	2.6								10.3	8.3
NNE	.6	3.2	3.2	1.3								8.4	7.2
NE	2.6	2.6	3.2		.6							9.0	6.1
ENE	3.9	1.3	1.9									7.1	4.4
E	1.3	5.8	1.3			.6						9.0	6.2
ESE	.6		2.6	1.9	.6	.6						6.5	11.8
SE	1.9		1.3	2.6	.6							6.5	9.4
SSE	1.3	.6		1.3								3.2	6.6
S		.6	.6		.6							1.9	10.3
SSW	.6	1.3										1.9	4.0
SW		1.3	.6									1.9	5.7
WSW		.6	.6		.6							1.9	10.0
W			1.9	.6								2.6	10.0
WNW		1.3	1.9	2.6								5.8	9.7
NW	1.3	2.6	4.5	1.9								10.3	7.9
NNW	1.3	1.3	1.3	3.2		.6						7.7	10.3
VARBL													
CALM												5.8	
	15.5	25.8	29.7	18.1	3.2	1.9						100.0	7.5

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | MAR MONTH

ALL WEATHER CLASS | 13 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N			1.9									1.9	8.0
NNE		1.9	1.3	.6								3.9	7.3
NE	.6	.6	1.3	.6	.6							3.9	9.5
ENE		1.9	.6									2.6	5.5
E	1.3	1.3	2.6	1.9								7.1	8.1
ESE			1.3	4.5	1.9	1.3						9.0	15.4
SE			1.3	3.2	.6							5.2	13.6
SSE	.6	.6	1.9	1.9								5.2	10.0
S	1.3	3.2	1.3	.6	.6							7.1	7.0
SSW	.6	3.2	1.3	.6								5.8	6.6
SW	.6	.6	1.3	.6								3.2	8.2
WSW		1.3	1.9									3.2	6.8
W	1.9	1.9	7.1	4.5								15.5	9.0
WNW	.6	.6	3.9	4.5	.6							10.3	10.5
NW		1.9	3.9	2.6	.6							9.0	10.6
NNW	1.3	.6	1.9	.6	.6							5.2	8.5
VARBL													
CALM												1.9	
	9.0	20.0	34.8	27.1	5.8	1.3						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.3	1.9	.6								4.5	7.9
NNE		.6	1.3	.6	.6							3.2	10.4
NE	1.3		.6									1.9	4.7
ENE			.6									.6	8.0
E			.6									.6	9.0
ESE		.6	.6	5.8	2.6	.6						10.3	15.3
SE		.6	.6	2.6	.6							4.5	12.6
SSE		.6	1.9	1.9								4.5	10.4
S		1.3	1.9	3.9								7.1	9.5
SSW			3.9		.6							4.5	9.4
SW	1.3	1.9	1.9	1.3								6.5	7.6
WSW		3.2	2.6	1.3	1.3							8.4	9.4
W	.6	3.2	11.0	12.3	.6							27.7	10.1
WNW	.6	1.3	3.9	5.8			.6					12.3	11.4
NW			.6	1.3								1.9	11.0
NNW	.6			.6								1.3	9.5
VARBL													
CALM												.0	
	5.2	14.8	34.2	38.1	6.5	.6	.6					100.0	10.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.6										1.3	3.5
NNE	1.3	1.9										3.2	4.2
NE		.6	.6	.6								1.9	9.3
ENE		.6										.6	4.0
E			2.6	.6								3.2	9.6
ESE		1.3	1.9	4.5		1.3						9.0	11.8
SE	.6		3.2	3.2	1.3							8.4	11.6
SSE	.6	.6	2.6									3.9	6.8
S		1.9	1.9	.6								4.5	7.7
SSW		1.3	1.3	1.3								3.9	10.0
SW	.6	1.9	.6	.6								3.9	6.5
WSW	.6	1.3	7.1	2.6	.6							12.3	9.3
W	.6	4.5	15.5	5.8	.6							27.1	9.0
WNW		2.6	5.2	3.2								11.0	8.3
NW		.6		1.3			.6					2.6	15.0
NNW		.6		.6								1.3	9.0
VARBL													
CALM												1.9	
	5.2	20.6	42.6	25.2	2.6	1.3	.6					100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 155

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	.6										2.6	2.5
NNE	.6	1.9										2.6	5.0
NE			.6									.6	8.0
ENE	2.6	.6										3.2	2.4
E	1.9	2.6	1.9	.6								7.1	6.0
ESE	1.9	2.6	7.7	1.9	.6							14.8	8.4
SE		.6	1.9	1.9	.6							5.2	10.8
SSE			1.3									1.3	8.0
S	1.3	.6	.6	.6								3.2	6.4
SSW		.6	.6									1.3	7.0
SW		1.9	1.3									3.2	6.6
WSW		5.8	2.6	.6								9.0	6.1
W	1.3	6.5	3.9	4.5	.6		.6					17.4	9.0
WNW	2.6	3.2	3.2	.6	.6							10.3	6.4
NW	1.3	1.3	1.9	1.3								5.8	7.9
NNW	1.9	3.9	.6	1.3								7.7	5.8
VARBL													
CALM												4.5	
	17.4	32.9	28.4	13.5	2.6		.6					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.6	2.3	1.6	.4								5.9	5.7
NNE	.6	2.1	1.5	.3	.1							4.5	6.4
NE	1.1	1.4	1.3	.2	.2							4.1	6.0
ENE	1.8	1.9	.6									4.2	4.0
E	2.8	3.6	2.2	.6	.1	.1						9.4	5.7
ESE	1.0	.8	2.7	3.5	.9	.5						9.4	11.1
SE	.4	.3	1.3	2.3	.6							4.9	11.5
SSE	.5	.5	1.0	.9								2.9	8.6
S	.5	1.5	.9	1.0	.2							4.0	7.7
SSW	.2	1.3	1.0	.3	.1							3.0	7.4
SW	.5	1.4	.7	.4								3.0	6.8
WSW	.2	1.8	2.1	.9	.3							5.2	8.4
W	1.0	2.6	5.3	4.1	.3		.1					13.4	9.2
WNW	.8	1.9	3.5	2.6	.2	.1	.1					9.2	8.9
NW	.6	1.6	2.3	1.5	.2		.1					6.3	8.7
NNW	1.0	2.1	1.3	1.3	.1	.1						5.9	7.6
VARBL													
CALM												4.8	
	14.6	26.9	29.3	20.2	3.2	.7	.2					100.0	7.7

TOTAL NUMBER OF OBSERVATIONS 1240

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS)

01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	.7	.7									2.7	3.8
NNE	1.3	2.7	.7									4.7	3.9
NE	.7		.7									1.3	5.5
ENE	2.7	2.0										4.7	3.0
E	10.0	4.0	2.7	2.0								18.7	4.9
ESE	1.3	4.7	2.7	2.7								11.3	7.7
SE		.7	.7	.7								2.0	7.3
SSE		.7	.7	.7								2.0	8.7
S	.7	1.3	.7									2.7	5.0
SSW			1.3									1.3	8.5
SW	.7			.7								1.3	9.0
WSW	3.3	.7	1.3	.7								6.0	5.3
W	2.7	2.7	1.3	1.3	.7							8.7	6.3
WNW	.7	2.0	3.3	.7								6.7	7.1
NW	2.7	4.0	2.7	.7								10.0	6.0
NNW	.7	.7	.7	.7								2.7	7.0
VARBL													
CALM												13.3	
	28.7	26.7	20.0	10.7	.7							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	4.7										5.3	4.5
NNE		2.0	1.3									3.3	6.4
NE	1.3	1.3	.7									3.3	5.0
ENE	6.0	8.0	1.3									15.3	3.9
E	7.3	8.7	2.0									18.0	4.1
ESE	1.3	2.0	.7	.7								4.7	6.9
SE	1.3		.7	.7								2.7	6.0
SSE			.7	1.3								2.0	10.7
S		.7	.7									1.3	7.0
SSW			.7									.7	9.0
SW	2.0	1.3										3.3	3.6
WSW	.7		1.3	.7	.7							3.3	9.4
W			2.0	.7								2.7	9.3
WNW	4.0	1.3	2.0	.7	.7							8.7	6.2
NW	.7	1.3	4.7									6.7	6.5
NNW	2.0	2.7	1.3									6.0	4.6
VARBL													
CALM												12.7	
	27.3	34.0	20.0	4.7	1.3							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

ROTA, SPAIN — STATION NAME

73-77 — YEARS

APR — MONTH

ALL WEATHER — CLASS

07 — HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	2.7	2.0									6.0	5.7
NNE	2.0	1.3	.7	.7	.7							5.3	6.8
NE	2.7	2.0	2.0									6.7	4.7
ENE	4.7	3.3	.7									8.7	3.5
E	13.3	9.3	2.7									25.3	3.8
ESE	.7	.7	1.3	.7								3.3	7.2
SE	.7	1.3	.7									2.7	5.0
SSE	1.3											1.3	2.0
S				.7								.7	11.0
SSW		1.3										1.3	6.0
SW		1.3		.7								2.0	8.7
WSW	.7	.7	.7	.7								2.7	7.9
W		1.3	.7	.7								2.7	8.5
WNW	.7		4.0	.7		.7						6.0	9.3
NW	2.7	1.3	1.3									5.3	4.9
NNW	1.3	2.0										3.3	3.2
VARBL													
CALM												16.7	
	32.0	28.7	16.7	4.7	.7	.7						100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		.7	1.3	.7								2.7	8.0
NNE		4.0	3.3	.7	.7							8.7	7.8
NE		3.3	4.7	.7								8.7	7.2
ENE	2.0	5.3	.7									8.0	4.9
E	2.7	5.3	2.7	1.3								12.0	6.2
ESE	1.3	.7	1.3	2.0	.7							6.0	9.6
SE	.7	1.3	2.0									4.0	6.7
SSE	1.3	2.7	.7									4.7	4.6
S	.7	2.0	.7									3.3	5.2
SSW	1.3	1.3										2.7	3.8
SW	1.3	.7	1.3	.7	.7							4.7	9.1
WSW	.7		2.7		.7							4.0	9.2
W		2.7	3.3	1.3								7.3	7.7
WNW	.7	1.3	2.7	3.3	.7							8.7	9.5
NW	.7	2.0	3.3		.7							6.7	7.7
NNW		1.3	.7									2.0	6.3
VARBL													
CALM												6.0	
	13.3	34.7	31.3	10.7	4.0							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS)

13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		2.0	2.0									4.0	6.7
NNE		1.3	1.3	.7	.7							4.0	9.3
NE	.7	.7	1.3									2.7	6.5
ENE	.7	1.3	4.0	.7								6.7	7.6
E	.7	2.0	.7	1.3								4.7	7.4
ESE		2.0	1.3	2.7	.7							6.7	10.2
SE		1.3		1.3	.7							3.3	12.0
SSE		1.3	.7									2.0	7.3
S		8.0	2.0		.7							10.7	6.1
SSW	1.3	5.3	2.7		.7							10.0	6.7
SW	.7	.7	2.7	.7								4.7	7.3
WSW		2.0	2.7	1.3								6.0	8.6
W	.7	3.3	9.3	6.7								20.0	9.1
WNW		1.3	3.3	3.3	.7							8.7	10.2
NW		.7	2.0	1.3								4.0	9.3
NNW			.7									.7	8.0
VARBL													
CALM												1.3	
	4.7	33.3	36.7	20.0	4.0							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS 150

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N			2.0	.7								2.7	8.8
NNE	.7	.7	1.3									2.7	5.8
NE	.7	1.3										2.0	4.0
ENE			.7	.7								1.3	9.5
E			.7									.7	10.0
ESE		.7	2.0	4.7								7.3	11.7
SE		1.3	.7	1.3	1.3							4.7	12.3
SSE	.7		1.3									2.0	6.7
S		2.0	2.7	1.3								6.0	8.0
SSW	1.3	2.7	2.7	.7								7.3	6.5
SW		3.3	2.7	4.0								10.0	9.7
WSW	.7	1.3	6.0	6.0								14.0	9.8
W	2.0	5.3	10.7	10.7	.7							29.3	9.2
WNW			4.7	2.0	.7							7.3	11.1
NW		.7	1.3									2.0	8.0
NNW													
VARBL													
CALM												.7	
	6.0	19.3	39.3	32.0	2.7							100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		.7	.7									1.3	6.5
NNE		.7	2.0									2.7	7.8
NE													
ENE		.7										.7	4.0
E			1.3		.7							2.0	12.0
ESE	1.3	1.3	3.3	4.0	.7							10.7	9.8
SE			4.0	1.3								5.3	10.6
SSE		1.3	.7									2.0	5.3
S	1.3	2.7	1.3									5.3	5.6
SSW		2.7	.7									3.3	5.6
SW	1.3	2.0	3.3	2.0								8.7	7.7
WSW	.7	2.7	4.7	4.0	.7							12.7	8.9
W	.7	7.3	15.3	12.0								35.3	9.2
WNW	.7	1.3	4.0	2.0								8.0	8.5
NW		.7										.7	4.0
NNW		.7										.7	5.0
VARBL													
CALM												.7	
	6.0	24.7	41.3	25.3	2.0							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	.7										2.0	3.7
NNE	1.3	.7										2.0	3.7
NE	1.3											1.3	1.5
ENE	2.7	.7										3.3	2.8
E	2.7	5.3		1.3								9.3	5.4
ESE	1.3	2.7	4.0	3.3								11.3	8.6
SE		2.0		2.0								4.0	9.7
SSE		.7	.7									1.3	8.0
S	.7	.7	.7									2.0	6.3
SSW	2.0	.7		.7								3.3	4.6
SW	2.0	2.0	.7	.7								5.3	5.3
WSW	.7	2.7	2.7	.7								6.7	6.7
W	4.7	5.3	8.7	4.0	1.3							24.0	7.6
WNW	2.7	4.0	2.0	1.3								10.0	5.9
NW		2.0	.7	.7								3.3	7.2
NNW	.7	.7										1.3	3.0
VARBL													
CALM												9.3	
	24.0	30.7	20.0	14.7	1.3							100.0	5.9

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.5	1.1	.2								3.3	5.8
NNE	.7	1.7	1.3	.2	.2							4.2	6.7
NE	.9	1.1	1.2	.1								3.2	5.6
ENE	2.3	2.7	.9	.2								6.1	4.5
E	4.6	4.3	1.6	.7	.1							11.3	5.0
ESE	.9	1.8	2.1	2.6	.2							7.7	9.1
SE	.3	1.0	1.1	.9	.2							3.6	9.2
SSE	.4	.8	.7	.2								2.2	6.5
S	.4	2.2	1.1	.2	.1							4.0	6.3
SSW	.7	1.7	1.0	.2	.1							3.7	6.2
SW	1.0	1.4	1.3	1.2	.1							5.0	7.7
WSW	.9	1.2	2.7	1.7	.2							6.9	8.4
W	1.3	3.5	6.4	4.7	.3							16.2	8.6
WNW	1.2	1.4	3.2	1.7	.3	.1						8.0	8.4
NW	.8	1.6	2.0	.3	.1							4.8	6.7
NNW	.6	1.0	.4	.1								2.1	4.9
VARBL													
CALM												7.6	
	17.7	29.0	28.2	15.3	2.1	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		2.6										2.6	4.8
NNE	.6		.6									1.3	5.0
NE		.6	.6									1.3	6.5
ENE	1.3	.6										1.9	3.3
E	5.2	.6	1.9	1.9								9.7	5.8
ESE	1.3		3.2	2.6								7.1	9.4
SE	1.9	3.2	1.9	.6								7.7	6.0
SSE	.6	1.9		.6								3.2	6.2
S	1.3	2.6	1.3									5.2	4.6
SSW	1.9	1.9	.6	.6								5.2	5.4
SW	.6	2.6	4.5	1.9								9.7	8.1
WSW		5.2	2.6	.6								8.4	6.6
W	1.3	7.7	1.9	.6								11.6	5.4
WNW		1.9	2.6	.6								5.2	7.1
NW	.6	1.9	2.6	.6								5.8	7.2
NNW	.6	.6	1.3	.6								3.2	7.4
VARBL													
CALM												11.0	
	17.4	34.2	25.8	11.6								100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6	1.3	.6									4.5	3.9
NNE	1.9	1.3	1.3									4.5	4.0
NE		.6	1.3									1.9	7.0
ENE	3.9	.6										4.5	2.7
E	12.3	4.5	1.3									18.1	3.4
ESE	1.9	.6	1.9									4.5	4.9
SE	.6	2.6	.6									3.9	5.0
SSE	1.3	.6	.6									2.6	4.0
S	1.3	1.3	3.2									5.8	6.1
SSW		2.6	1.3	.6								4.5	7.4
SW	.6	2.6	1.9	.6								5.8	6.8
WSW	.6	2.6	.6	1.9								5.8	7.6
W		2.6	2.6									5.2	6.9
WNW	2.6	2.6	1.3									6.5	4.7
NW	2.6	2.6	1.3	.6								7.1	5.5
NNW	1.3	1.9	1.9									5.2	5.3
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	9.7	
	33.5	31.0	21.9	3.9								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	4.5	.6									7.1	4.4
NNE	1.9	1.3	1.9									5.2	4.9
NE	1.3	2.6										3.9	3.7
ENE	3.9	1.9										5.8	3.3
E	12.9	5.2	.6									18.7	3.0
ESE	.6	1.9	1.9									4.5	6.0
SE		1.3	.6									1.9	6.7
SSE			.6	.6								1.3	11.0
S			2.6	.6								3.2	9.4
SSW	.6	1.9	3.9	.6								7.1	7.3
SW	.6	1.9	2.6	.6								5.8	6.9
WSW	.6		.6	1.3								2.6	8.5
W	.6	.6	1.3									2.6	6.3
WNW	1.9	3.2	.6	.6								6.5	5.9
NW	1.9	3.2	1.9									7.1	5.1
NNW		2.6	1.3									3.9	5.8
VARBL													
CALM												12.9	
	29.0	32.3	21.3	4.5								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	1.9	1.3									4.5	5.1
NNE	1.3	1.3	1.9	1.9								6.5	7.9
NE	1.3	3.2	1.9									6.5	5.7
ENE		1.9	1.3	.6								3.9	7.0
E	1.3	4.5	1.9	.6	.6							9.0	6.9
ESE	.6	1.9	1.9	.6	.6							5.8	8.2
SE	.6		.6									1.3	6.0
SSE		1.3	2.6	.6								4.5	8.7
S	1.9		3.2	.6								5.8	6.7
SSW		3.2	3.2	1.3								7.7	8.1
SW	1.3	1.3	2.6	1.3								6.5	6.8
WSW		1.3	1.3	1.9								4.5	8.6
W	1.9	5.8	1.3	1.3								10.3	5.4
WNW		2.6	4.5	3.2								10.3	8.8
NW	.6	1.3	1.3	1.9								5.2	8.8
NNW		.6	.6	.6								1.9	8.0
VARBL													
CALM												5.8	
	12.3	32.3	31.6	16.8	1.3							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS)

13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		1.3	1.3									2.6	6.8
NNE		1.9	.6	.6								3.2	7.4
NE		.6	.6									1.3	7.0
ENE				.6								.6	11.0
E	.6			1.3	.6							2.6	12.3
ESE			.6	2.6	1.3							4.5	13.6
SE	.6			1.3	.6							2.6	11.8
SSE			1.9	1.9								3.9	11.8
S		.6	6.5	2.6								9.7	9.7
SSW		2.6	5.2	1.3								9.0	8.1
SW		4.5	4.5	1.9								11.0	7.9
WSW		3.2	8.4	1.3								12.9	7.7
W	.6	5.2	14.8	5.2								25.8	8.4
WNW		1.9	5.8	2.6								10.3	9.4
NW													
NNW													
VARBL													
CALM												.0	
	1.9	21.9	50.3	23.2	2.6							100.0	8.9

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		.6										.6	4.0
NNE													
NE	.6	.6	.6									1.9	6.0
ENE	.6											.6	3.0
E					1.3							1.3	20.0
ESE			.6	2.6	1.9							5.2	15.1
SE				3.9								3.9	13.2
SSE		.6	.6	1.9								3.2	10.6
S			3.2	1.9								5.2	10.5
SSW		.6	5.2	2.6								8.4	9.7
SW		1.9	7.7	5.8								15.5	10.3
WSW		1.3	10.3	1.9	.6							14.2	9.1
W		2.6	18.7	5.8	1.9							29.0	9.6
WNW		1.3	5.8	3.2								10.3	9.3
NW				.6								.6	12.0
NNW													
VARBL													
CALM												.0	
	1.3	9.7	52.9	30.3	5.8							100.0	10.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE			.6									.6	7.0
E			.6									.6	10.0
ESE			.6	3.9	1.3							5.8	14.4
SE			.6	3.2								3.9	11.8
SSE			.6	.6								1.3	11.0
S	1.3		1.3									2.6	6.3
SSW		.6	3.9	3.9								8.4	10.1
SW		5.2	8.4	3.9								17.4	8.5
WSW	.6	3.9	7.1	3.2	.6							15.5	9.2
W	1.3	5.8	14.8	7.7								29.7	8.8
WNW	.6	3.9	4.5	.6								9.7	7.3
NW			1.9	.6								2.6	10.3
NNW		1.3	.6									1.9	6.3
VARBL													
CALM												.0	
	3.9	20.6	45.8	27.7	1.9							100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

AD-A060 994 NAVAL WEATHER SERVICE DETACHMENT \SHEVILLE N C F/G 4/2
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) ROTA, SP--ETC(U)
JUL 78

UNCLASSIFIED NL

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NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE			.6									.6	7.0
NE			1.3									1.3	7.0
ENE													
E	.6	1.9	.6	.6								3.9	7.2
ESE			3.2	3.9								7.1	10.8
SE		.6	.6									1.3	7.5
SSE	.6	1.3	1.3									3.2	6.0
S	1.9	1.9	2.6									6.5	5.5
SSW	1.3	3.2	1.3	1.3								7.1	6.1
SW		3.2	3.2	1.9								8.4	7.9
WSW	.6	5.8	5.2	1.3	.6							13.5	7.4
W	2.6	8.4	6.5	1.9	.6							20.0	6.8
WNW	3.2	5.2	4.5									12.9	5.3
NW	1.9	.6										2.6	2.8
NNW	1.9	2.6										4.5	4.0
VARBL													
CALM												7.1	
	14.8	34.8	31.0	11.0	1.3							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	1.5	.5									2.7	4.7
NNE	.7	.7	.9	.3								2.7	6.1
NE	.4	1.0	.8									2.3	5.7
ENE	1.2	.6	.2	.2								2.3	4.4
E	4.1	2.1	.9	.6	.3							8.0	5.1
ESE	.6	.6	1.8	2.0	.6							5.6	10.4
SE	.5	1.0	.6	1.1	.1							3.3	8.4
SSE	.3	.7	1.0	.8								2.9	8.5
S	1.0	.8	3.0	.7								5.5	7.5
SSW	.5	2.1	3.1	1.5								7.2	8.0
SW	.4	2.9	4.4	2.3								10.0	8.3
WSW	.3	2.9	4.5	1.7	.2							9.7	8.2
W	1.0	4.8	7.7	2.8	.3							16.8	7.9
WNW	1.0	2.8	3.7	1.4								9.0	7.4
NW	1.0	1.2	1.1	.6								3.9	6.6
NNW	.5	1.2	.7	.2								2.6	5.8
VARBL													
CALM												5.8	
	14.3	27.1	35.1	16.1	1.6							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7											.7	1.0
NNE		.7										.7	4.0
NE	1.3		.7									2.0	3.7
ENE													
E	6.7	3.3	2.0	.7								12.7	4.4
ESE	1.3		4.0	4.0								9.3	9.3
SE	.7	3.3	2.7	.7	.7	.7						8.7	9.0
SSE	2.0	.7	2.0									4.7	5.4
S	3.3	4.7	2.0	1.3								11.3	5.5
SSW	2.7	1.3	1.3									5.3	4.8
SW		3.3	.7	1.3								5.3	7.4
WSW	2.0	2.0	1.3									5.3	5.0
W	2.0	4.7	5.3									12.0	5.7
WNW	2.0	.7	1.3	.7	.7							5.3	7.4
NW		.7	.7									1.3	6.5
NNW		.7	.7									1.3	6.0
VARBL													
CALM												14.0	
	24.7	26.0	24.7	8.7	1.3	.7						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.0	.7										2.7	3.0
NNE	2.0		.7									2.7	3.0
NE	.7	1.3	.7									2.7	4.5
ENE	3.3	4.0										7.3	3.4
E	8.0	8.7	3.3	.7								20.7	4.5
ESE	2.7	2.0	4.0		.7							9.3	6.4
SE	.7	.7	1.3	1.3								4.0	7.8
SSE		2.0	2.7		.7							5.3	8.0
S	2.0	3.3	2.7	.7								8.7	6.1
SSW	.7	1.3	.7									2.7	5.3
SW	2.0	1.3	1.3	.7								5.3	5.3
WSW	.7	2.0	.7									3.3	4.8
W	1.3	1.3	1.3	.7								4.7	6.4
WNW	.7	2.7		.7								4.0	6.3
NW		1.3	1.3									2.7	7.3
NNW	.7	2.0										2.7	3.8
VARBL													
CALM												11.3	
	27.3	34.7	20.7	4.7	1.3							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	.7										2.0	3.0
NNE	.7	.7	.7									2.0	5.3
NE	3.3	2.7										6.0	3.7
ENE	4.0	6.0										10.0	3.9
E	18.7	8.0		.7								27.3	3.1
ESE	.7	1.3										2.0	4.3
SE		2.7	2.7									5.3	7.0
SSE	.7	2.7	1.3	.7								5.3	6.0
S		4.7	2.7	.7								8.0	6.0
SSW		.7										.7	4.0
SW	.7	1.3										2.0	4.3
WSW	1.3	1.3	2.0									4.7	5.0
W	.7	1.3	2.7	.7								5.3	7.3
WNW		.7	2.7									3.3	7.6
NW	.7	1.3	.7									2.7	4.5
NNW		2.0	.7									2.7	6.5
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	10.7	
	32.7	38.0	16.0	2.7								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS)

10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	2.0		.7								3.3	5.8
NNE	.7	1.3										2.0	4.0
NE		2.7	2.0									4.7	6.6
ENE	1.3	2.0		1.3								4.7	6.7
E		3.3	1.3	.7		.7						6.0	8.6
ESE	.7	2.0	4.0	2.0	2.7							11.3	10.6
SE	1.3	2.0	.7	1.3	.7							6.0	8.4
SSE		3.3	2.0	1.3								6.7	7.3
S	2.0	2.7	6.0	.7								11.3	6.7
SSW	.7	5.3	1.3				.7					8.0	7.3
SW	1.3	2.0	3.3									6.7	6.9
WSW	.7	4.7	1.3	.7								7.3	6.1
W	.7	2.7	2.7	1.3								7.3	7.3
WNW		1.3	.7	1.3	.7							4.0	9.8
NW		1.3	2.0									3.3	7.6
NNW	1.3		.7									2.0	4.3
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	5.3	
	11.3	38.7	28.0	11.3	4.0	.7	.7					100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE	.7		.7									1.3	6.0
E			1.3	1.3		.7						3.3	14.4
ESE			.7	2.0	1.3							4.0	14.5
SE		.7	1.3	3.3	2.0							7.3	13.6
SSE			1.3	2.0								3.3	11.6
S	.7	3.3	3.3	3.3								10.7	8.6
SSW		1.3	8.7	2.0								12.0	8.2
SW	.7	5.3	7.3	2.0								15.3	7.7
WSW		2.7	7.3	4.7								14.7	8.8
W		4.0	16.7	4.0	.7							25.3	8.8
WNW			1.3	.7								2.0	9.3
NW													
NNW				.7								.7	12.0
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	.0	
	2.0	17.3	50.0	26.0	4.0	.7						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE			.7	2.0	1.3	.7						4.7	16.6
SE				4.0	.7							4.7	15.1
SSE				3.3								3.3	13.0
S			3.3	4.0	.7							8.0	11.5
SSW		2.0	4.7	1.3								8.0	8.3
SW		2.0	10.0	6.0								18.0	9.9
WSW		1.3	13.3	8.7								23.3	10.2
W		1.3	14.0	9.3	.7							25.3	10.3
WNW		2.0	1.3	.7	.7							4.7	8.9
NW													
NNW													
VARBL													
CALM												.0	
		8.7	47.3	39.3	4	.7						100.0	10.7

TOTAL NUMBER OF OBSERVATIONS 150

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS)

19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE				3.3	2.0							5.3	15.1
SE			.7	4.7		.7						6.0	13.6
SSE			2.0	2.7								4.7	11.0
S		1.3	3.3	.7								5.3	8.8
SSW		2.0	3.3	2.0								7.3	8.7
SW		2.7	4.7	2.0								9.3	8.9
WSW		2.0	10.0	8.0								20.0	10.1
W	1.3	5.3	18.0	6.7	2.0							33.3	9.2
WNW		1.3	6.7	.7								8.7	8.5
NW													
NNW													
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	.0	
	1.3	14.7	48.7	30.7	4.0	.7						100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE			.7									.7	7.0
NE													
ENE	.7											.7	3.0
E	.7		.7	1.3								2.7	8.5
ESE		2.0	2.7	3.3								8.0	9.6
SE	.7		2.7	4.0								7.3	10.5
SSE	.7		3.3	.7								4.7	7.7
S		1.3	2.7									4.0	7.7
SSW	1.3	2.7										4.0	4.2
SW	2.0	2.0	.7	1.3								6.0	5.6
WSW	2.7	3.3	7.3	.7								14.0	6.9
W	2.7	10.0	8.7	1.3								22.7	6.3
WNW	2.0	6.7	.7	1.3								10.7	5.6
NW	2.0											2.0	2.0
NNW		.7										.7	5.0
VARBL													
CALM												12.0	
	15.3	28.7	30.0	14.0								100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.4		.1								1.1	3.9
NNE	.4	.3	.2									1.0	4.3
NE	.7	.8	.4									1.9	4.7
ENE	1.2	1.5	.1	.2								3.0	4.4
E	4.2	2.9	1.1	.7		.2						9.1	4.9
ESE	.7	.9	2.0	2.1	1.0	.1						6.7	10.5
SE	.4	1.2	1.5	2.4	.5	.2						6.2	10.7
SSE	.4	1.1	1.8	1.3	.1							4.7	8.4
S	1.0	2.7	3.2	1.4	.1							8.4	7.4
SSW	.7	2.1	2.5	.7			.1					6.0	7.2
SW	.8	2.5	3.5	1.7								8.5	7.9
WSW	.9	2.4	5.4	2.8								11.6	8.4
W	1.1	3.8	8.7	3.0	.4							17.0	8.3
WNW	.6	1.9	1.8	.7	.2							5.3	7.6
NW	.3	.6	.6									1.5	5.8
NNW	.2	.7	.2	.1								1.2	5.5
VARBL													
CALM												6.7	
	14.3	25.8	33.2	17.2	2.3	.4	.1					100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | JUL MONTH

ALL WEATHER CLASS | 01 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N			.6									.6	7.0
NNE		.6										.6	4.0
NE		.6										.6	4.0
ENE			.6									.6	8.0
E	5.8	4.5	.6	1.3								12.3	4.4
ESE	3.9	2.6	2.6	3.9	1.3							14.2	8.3
SE	1.9	2.6	1.3	1.9								7.7	7.2
SSE	2.6	1.9	.6									5.2	4.1
S	4.5	4.5	1.3	.6								11.0	4.6
SSW	.6	2.6										3.2	4.4
SW	.6	1.3										1.9	3.7
WSW	.6	.6	.6									1.9	5.0
W	1.9	3.2	1.9	.6								7.7	5.5
WNW	1.3	1.9	.6									3.9	4.2
NW		2.6	6.5									9.0	8.0
NNW	1.9	.6	1.3	.6								4.5	6.0
VARBL													
CALM												14.8	
	25.8	30.3	18.7	9.0	1.3							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 155

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	1.9										3.9	3.5
NNE	.6	.6	.6									1.9	5.0
NE	1.9											1.9	2.7
ENE	2.6	1.9	1.3									5.8	4.2
E	6.5	9.7	2.6	.6								19.4	4.5
ESE	3.2	5.8	1.9	1.3								12.3	5.4
SE	.6	1.3	1.9									3.9	6.5
SSE	1.3	1.3										2.6	4.0
S	.6	2.6	1.9									5.2	5.5
SSW	1.3	1.9	1.3									4.5	4.7
SW			.6									.6	7.0
WSW	1.3	.6	.6									2.6	4.5
W	.6	.6	3.2									4.5	7.4
WNW		.6										.6	5.0
NW	.6	4.5	2.6									7.7	6.2
NNW	1.9	1.9	.6	.6								5.2	4.9
VARBL													
CALM												17.4	
	25.2	35.5	19.4	2.6								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 155

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6	2.6	.6									5.8	3.9
NNE		3.2										3.2	5.2
NE		1.9	.6									2.6	6.0
ENE	6.5	3.9	.6									11.0	3.4
E	11.6	4.5	1.9									18.1	3.7
ESE	2.6	1.9	.0									5.2	3.9
SE	.6	1.3	2.6	1.3								5.8	8.0
SSE	2.6	1.9	.6									5.2	3.8
S	1.9	1.3	1.3									4.5	4.9
SSW	.6	1.3										1.9	4.0
SW	1.3	.6										1.9	3.7
WSW	1.3	1.3	.6									3.2	4.8
W	.6	1.9	.6									3.2	6.0
WNW	1.9	1.9	.6	.6								5.2	5.5
NW	1.3	3.9	2.6									7.7	5.7
NNW	1.3	3.9										5.2	3.9
VARBL													
CALM												10.3	
	36.8	37.4	13.5	1.9								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS)

10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		.6	3.2	.6								4.5	8.3
NNE	1.3	.6	3.2									5.2	6.4
NE	1.3		1.3									2.6	5.0
ENE	1.9	.6	1.9									4.5	5.4
E	1.9	3.2	1.3	2.6								9.0	7.6
ESE	1.3	2.6	5.2	1.3	.6							11.0	8.5
SE		1.9	1.9	2.6								6.5	9.0
SSE		3.2	4.5									7.7	6.8
S	3.2	3.9	3.2	1.3								11.6	6.2
SSW	2.6	1.9	1.3									5.8	4.3
SW	.6	.6	1.3									2.6	6.3
WSW	1.3	1.9	1.9									5.2	5.5
W		2.6	1.9	1.3								5.8	7.3
WNW	.6	1.3	.6	1.9								4.5	8.4
NW	1.3	1.9	1.3	1.3								5.8	6.6
NNW	.6	1.3	3.2									5.2	7.3
VARBL													
CALM												2.6	
	18.1	28.4	37.4	12.9	.6							100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		.6										.6	5.0
NNE													
NE				.6								.6	11.0
ENE													
E			1.3									1.3	10.0
ESE		.6	.6	1.9	1.3							4.5	13.0
SE			.6	3.2	.6							4.5	14.1
SSE			2.6	5.2								7.7	11.4
S		3.9	5.8	2.6								12.3	8.3
SSW	1.3	1.9	4.5	1.9								9.7	8.1
SW		7.1	9.0									16.1	6.7
WSW		3.2	5.8	1.9								11.0	7.8
W		1.9	11.0	5.2								18.1	9.4
WNW		.6	4.5	5.2								10.3	10.7
NW		.6	1.3	1.3								3.2	9.6
NNW													
VARBL													
CALM												.0	
	1.3	20.6	47.1	29.0	1.9							100.0	9.2

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
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SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS)

16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE				1.3								1.3	16.0
SE			1.3	3.9	1.9							7.1	14.6
SSE		.6	1.3	4.5	.6							7.1	11.8
S		.6	2.6	1.3	.6							5.2	11.0
SSW		1.3	2.6	.6								4.5	8.0
SW		1.3	6.5	.6								8.4	8.8
WSW		1.3	9.7	10.3								21.3	10.5
W		1.9	20.6	12.3	.6							35.5	10.4
WNW			2.6	4.5								7.1	11.6
NW		.6	1.3	.6								2.6	9.5
NNW													
VARBL													
CALM												.0	
		7.7	48.4	40.0	3.9							100.0	10.7

TOTAL NUMBER OF OBSERVATIONS 155

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS)

19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE			.6	3.9								4.5	13.3
SE			1.3	7.1								8.4	13.3
SSE		.6		.6								1.3	11.0
S			.6	1.3								1.9	11.3
SSW		1.3	.6									1.9	6.3
SW		1.3	4.5	1.3								7.1	9.0
WSW	.6	1.9	9.0	4.5								16.1	9.1
W		3.2	30.3	16.1								49.7	9.7
WNW			5.8	1.9								7.7	9.3
NW				.6								.6	11.0
NNW		.6										.6	5.0
VARBL													
CALM												.0	
	.6	9.0	52.9	37.4								100.0	9.9

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS)

22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE	.6											.6	3.0
NE	.6											.6	2.0
ENE													
E		.6	.6									1.3	6.0
ESE			3.2	3.9	.6							7.7	12.0
SE			3.2	3.2								6.5	11.1
SSE	.6	1.3	.6	.6								3.2	7.4
S	1.9	1.3	.6									3.9	3.8
SSW	1.9	1.3		.6								3.9	4.8
SW	.6	3.2	1.3									5.2	5.6
WSW	1.9	5.8	2.6									10.3	5.4
W	5.2	12.3	11.0	1.3								30.3	6.1
WNW	1.9	6.5	3.2	.6								12.3	5.8
NW	1.9	1.9	.6	.6								5.2	5.4
NNW	1.3											1.3	1.5
VARBL													
CALM												7.7	
	18.7	34.2	27.7	11.0	.6							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.7	.6	.1								1.9	5.3
NNE	.3	.6	.5									1.5	5.5
NE	.5	.3	.2	.1								1.1	4.9
ENE	1.4	.8	.6									2.7	4.1
E	3.2	2.8	1.0	.6								7.7	4.8
ESE	1.4	1.7	1.9	2.2	.5							7.6	8.7
SE	.4	.9	1.8	2.9	.3							6.3	10.7
SSE	.9	1.4	1.3	1.4	.1							5.0	7.9
S	1.5	2.3	2.2	.9	.1							6.9	6.6
SSW	1.0	1.7	1.3	.4								4.4	6.0
SW	.4	1.9	2.9	.2								5.5	7.0
WSW	.9	2.1	3.9	2.1								9.0	8.1
W	1.0	3.5	10.2	4.6	.1							19.4	8.7
WNW	.7	1.6	2.3	1.9								6.5	8.2
NW	.6	2.0	2.0	.6								5.2	7.0
NNW	.9	1.0	.6	.2								2.7	5.2
VARBL													
CALM												6.6	
	15.8	25.4	33.1	18.0	1.0							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | AUG MONTH

ALL WEATHER CLASS | 01 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	.6	.6									1.9	6.0
NNE	.6	1.3										1.9	3.7
NE	1.9	.6	.6									3.2	3.4
ENE	1.3	.6	.6									2.6	4.8
E	2.6	2.6	.6	1.9								7.7	5.9
ESE	1.9	1.9	2.6		.6							7.1	7.2
SE	3.9	1.9	.6	.6								7.1	4.6
SSE	4.5	1.3	.6	.6								7.1	4.1
S	5.2	6.5	1.3									12.9	4.1
SSW	1.9											1.9	2.0
SW	1.9	1.3										3.2	3.6
WSW	1.3	.6										1.9	3.0
W	1.9	5.2	.6									7.7	4.3
WNW	1.9		.6	1.3								3.9	6.3
NW	1.3	1.9	2.6	.6								6.5	6.7
NNW	.6	1.3	1.9	1.3								5.2	7.1
VARBL													
CALM												18.1	
	33.5	27.7	13.5	6.5	.6							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	4.5										5.2	4.5
NNE	.6	1.3	.6									2.6	4.8
NE	.6	1.3	.6									2.6	5.8
ENE	7.1	1.9										9.0	2.9
E	7.1	9.0	1.9	.6								18.7	4.3
ESE	.6	.6	1.3	.6								3.2	6.6
SE	1.9	2.6	2.6									7.1	5.4
SSE	1.3	5.2	1.3	.6								8.4	5.7
S	1.9	2.6	.6									5.2	4.3
SSW	3.2	2.6										5.8	3.6
SW	1.3	.6										1.9	3.0
WSW	.6											.6	3.0
W		.6										.6	5.0
WNW	1.9	.6	1.3									3.9	4.5
NW	1.3	1.9	.6									3.9	4.8
NNW	.6	1.9	3.2									5.8	6.1
VARBL													
CALM												15.5	
	31.0	37.4	14.2	1.9								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	3.2										3.9	4.8
NNE	1.3	.6										1.9	3.7
NE	1.9	3.9	1.9									7.7	4.8
ENE	6.5	3.9	.6									11.0	3.5
E	10.3	8.4	.6	.6								20.0	3.7
ESE	.6	2.6	.6	.6								4.5	5.9
SE	.6	1.3	.6									2.6	5.0
SSE	1.3	2.6	.6									4.5	4.9
S	.6	2.6	2.6	.6								6.5	6.6
SSW	2.6	1.9	.6									5.2	3.5
SW	.6	1.3										1.9	4.0
WSW													
W	.6	.6	.6									1.9	5.3
WNW		3.9	.6									4.5	4.6
NW	1.9	1.3	1.3									4.5	4.9
NNW	3.2	1.9	.6									5.8	4.0
VARBL													
CALM												13.5	
	32.9	40.0	11.6	1.9								100.0	3.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	1.3	2.6									5.8	5.6
NNE	.6	1.3	1.9	1.3								5.2	7.8
NE	.6	1.3	2.6									4.5	6.9
ENE	.6	1.3										1.9	4.3
E	1.9	1.9	2.6	1.9								8.4	7.4
ESE	1.9	3.2	2.6	4.5	.6							12.9	9.4
SE	1.9	1.9	1.9	.6								6.5	5.9
SSE		3.9	2.6									6.5	6.4
S	3.2	2.6	5.2	.6								11.6	6.4
SSW	.6	3.9	2.6	.6								7.7	6.2
SW	1.3		.6									1.9	4.7
WSW	1.9	1.9		1.3								5.2	5.8
W	.6	3.2	2.6									6.5	6.2
WNW		1.9	3.2	.6								5.8	7.3
NW			1.3	1.3								2.6	10.5
NNW			1.9	.6								2.6	9.8
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	4.5	
	17.4	29.7	34.2	13.5	.6							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		1.3										1.3	5.0
NNE		.6	1.9	.6								3.2	8.8
NE		.6	1.3									1.9	7.3
ENE		1.9										1.9	5.0
E			.6	.6								1.3	10.5
ESE			.6	1.3	1.3							3.2	15.0
SE			1.9	3.2								5.2	12.6
SSE		1.9	2.6	1.9								6.5	9.0
S		1.3	4.5									5.8	8.3
SSW	.6	5.8	5.2	.6								12.3	7.0
SW	.6	3.9	10.3	1.3								16.1	7.5
WSW		3.2	6.5	.6								10.3	8.0
W		4.5	12.9	3.2								20.6	8.6
WNW		1.3	3.2	3.9								8.4	10.4
NW			.6	.6								1.3	9.0
NNW													
VARBL													
CALM												.6	
	1.3	26.5	52.3	18.1	1.3							100.0	8.6

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N				1.3								1.3	12.0
NNE		.6	.6	.6								1.9	8.7
NE													
ENE													
E													
ESE			.6	1.9	1.3							3.9	15.2
SE				1.9								1.9	13.7
SSE				3.2								3.2	13.2
S		1.3	1.9	1.3								4.5	9.0
SSW			1.9	1.3								3.2	10.4
SW		3.2	7.1	.6								11.0	7.9
WSW	.6	3.9	14.8	3.2								22.6	8.5
W		3.2	20.6	11.6	.6							36.1	9.9
WNW	.6	.6	2.6	5.2								9.0	10.3
NW				.6								.6	15.0
NNW			.6									.6	10.0
VARBL													
CALM												.0	
	1.3	12.9	51.0	32.9	1.9							100.0	9.8

TOTAL NUMBER OF OBSERVATIONS 155

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE				.6								.6	15.0
ENE													
E				.6								.6	13.0
ESE			.6	2.6								3.2	14.2
SE		.6	.6	2.6								3.9	11.2
SSE		.6	2.6	.6								3.9	8.7
S		1.9	1.3									3.2	5.6
SSW		1.3	1.9	.6								3.9	7.5
SW		1.3	4.5									5.8	8.1
WSW		2.6	10.3	3.2								16.1	8.9
W	.6	4.5	27.1	14.2	.6							47.1	9.2
WNW		1.3	3.9	1.9								7.1	9.2
NW		1.3		1.3								2.6	8.8
NNW	.6		.6									1.3	5.0
VARBL													
CALM												.6	
	1.3	15.5	53.5	28.4	.6							100.0	9.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6											.6	3.0
NNE													
NE													
ENE				.6								.6	11.0
E		.6	3.2	.6								4.5	9.6
ESE			2.6	2.6								5.2	11.1
SE	1.3	1.3		.6								3.2	5.2
SSE	1.3	2.6										3.9	4.3
S	2.6	1.3										3.9	2.8
SSW	3.2	.6	.6									4.5	3.3
SW	3.2	2.6										5.8	3.3
WSW	3.2	9.7										12.9	4.4
W	5.2	11.0	3.2	.6								20.6	5.0
WNW	8.4	3.9	1.9									14.2	4.1
NW	.6	3.2	3.9									7.7	6.6
NNW	1.3		.6									1.9	4.7
VARBL													
CALM												10.3	
	31.0	37.4	16.1	5.2								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.4	.4	.2								2.5	5.5
NNE	.4	.7	.6	.3								2.1	6.7
NE	.6	1.0	.9	.1								2.6	5.7
ENE	1.9	1.2	.2	.1								3.4	3.8
E	2.7	2.8	1.2	.9								7.7	5.3
ESE	.6	1.0	1.5	1.8	.5							5.4	10.0
SE	1.2	1.2	1.0	1.2								4.7	7.3
SSE	1.0	2.3	1.3	.9								5.5	6.6
S	1.7	2.5	2.2	.3								6.7	5.8
SSW	1.5	2.0	1.6	.4								5.6	5.7
SW	1.1	1.8	2.8	.2								6.0	6.4
WSW	1.0	2.7	4.0	1.0								8.7	7.4
W	1.1	4.2	8.5	3.7	.2							17.7	8.2
WNW	1.6	1.7	2.2	1.6								7.1	7.2
NW	.6	1.2	1.3	.6								3.7	6.9
NNW	.8	.6	1.2	.2								2.9	6.1
VARBL													
CALM												7.9	
	18.7	28.4	30.8	13.5	.6							100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7		.7									1.3	5.0
NNE		2.0	.7									2.7	5.0
NE	.7	2.0										2.7	4.0
ENE	2.0	.7										2.7	2.5
E	4.7	2.0		2.0								8.7	4.9
ESE	1.3		4.0	5.3	.7							11.3	10.5
SE		.7	2.7									3.3	7.8
SSE		2.0	.7									2.7	5.3
S	2.7	2.0	.7	.7								6.0	4.7
SSW	.7	1.3										2.0	3.7
SW	.7	2.7	.7									4.0	5.3
WSW	.7	3.3	.7									4.7	5.4
W	2.7	2.0	4.0									8.7	5.3
WNW	1.3	2.7	1.3		.7							6.0	6.1
NW	1.3	3.3	1.3									6.0	5.6
NNW	1.3	4.7	.7									6.7	4.8
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	20.7	
	20.7	31.3	18.0	8.0	1.3							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.0	4.0	.7									6.7	4.1
NNE	1.3	.7	2.0									4.0	6.7
NE	4.0	2.7										6.7	2.7
ENE	2.7	4.7	.7									8.0	4.1
E	11.3	1.3	5.3	.7								18.7	4.7
ESE	1.3	.7		1.3								3.3	7.4
SE	.7		1.3									2.0	6.0
SSE	1.3	.7	.7	.7								3.3	6.0
S		1.3	.7	.7	.7							3.3	9.0
SSW	1.3	.7	.7									2.7	4.5
SW	1.3											1.3	3.0
WSW		2.7										2.7	5.5
W	.7	2.0										2.7	5.3
WNW	4.7	.7		.7								6.0	4.2
NW	4.0	1.3	.7									6.0	3.0
NNW	1.3	5.3										6.7	4.1
VARBL													
CALM												16.0	
	38.0	28.7	12.7	4.0	.7							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 150

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	4.7	2.7	.7									8.0	3.8
NNE		4.7	2.7									7.3	6.5
NE	2.0	.7	.7									3.3	3.8
ENE	3.3	2.7										6.0	3.4
E	16.7	5.3	2.7	.7								25.3	3.6
ESE	1.3	2.7	.7		.7							5.3	6.1
SE	1.3		.7									2.0	4.7
SSE	.7	1.3										2.0	3.7
S	.7	1.3		1.3								3.3	8.2
SSW	.7	.7	.7									2.0	5.0
SW	1.3	1.3										2.7	3.0
WSW		3.3										3.3	4.6
W		1.3	.7									2.0	6.3
WNW	2.0	2.0	.7	.7								5.3	5.3
NW	3.3	2.7										6.0	3.1
NNW	.7	2.0	1.3									4.0	5.0
VARBL													
CALM												12.0	
	38.7	34.7	11.3	2.7	.7							100.0	3.9

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	.7	2.0									3.3	6.2
NNE	.7	2.7	2.0	1.3								6.7	7.4
NE	1.3	1.3	2.0									4.7	5.6
ENE	1.3	2.0										3.3	3.8
E	3.3	2.7	2.7		1.3							10.0	6.8
ESE		.7	4.7	3.3	.7							9.3	11.0
SE		3.3	2.7	2.0								8.0	8.1
SSE	.7	2.7	.7									4.0	4.8
S	4.0	2.0	.7	.7	.7							8.0	5.3
SSW	.7	2.7	1.3	.7								5.3	6.1
SW		2.0	1.3									3.3	6.2
WSW		2.0	2.0									4.0	6.7
W	1.3	4.0	.7	.7								6.7	4.9
WNW	.7	2.7	3.3	1.3								8.0	7.3
NW	.7	2.7	2.7		.7							6.7	7.4
NNW		2.0	.7	1.3								4.0	7.7
VARBL													
CALM												4.7	
	15.3	36.0	29.3	11.3	3.3							100.0	6.6

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		1.3										1.3	6.0
NNE		.7	1.3	1.3								3.3	11.0
NE													
ENE		1.3										1.3	6.0
E		.7	.7	.7								2.0	10.0
ESE		.7	.7	6.0	1.3							8.7	13.8
SE			1.3	1.3	.7							3.3	12.8
SSE				2.0								2.0	12.3
S		3.3	7.3	1.3								12.0	8.0
SSW		.7	2.0	.7	.7							4.0	10.8
SW	.7	5.3	5.3	2.0								13.3	7.0
WSW		2.7	7.3									10.0	7.4
W	.7	6.0	15.3	3.3								25.3	8.1
WNW	.7	1.3	5.3	4.0								11.3	9.2
NW			.7									.7	10.0
NNW													
VARBL													
CALM												1.3	
	2.0	24.0	47.3	22.7	2.7							100.0	8.8

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE			1.3									1.3	9.0
ENE													
E			.7									.7	10.0
ESE				4.7	.7							5.3	15.1
SE				2.7	2.0							4.7	16.0
SSE			1.3	1.3	.7							3.3	13.8
S	.7		3.3	1.3								5.3	9.3
SSW	.7		2.0	.7								3.3	8.0
SW		2.0	6.7									8.7	7.8
WSW		2.7	12.0	5.3								20.0	9.4
W		3.3	20.7	12.7								36.7	9.9
WNW			4.0	4.7								8.7	11.0
NW			.7	.7								1.3	12.5
NNW			.7									.7	8.0
VARBL													
CALM												.0	
	1.3	8.0	53.3	34.0	3.3							100.0	10.3

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N													
NNE		.7										.7	4.0
NE													
ENE													
E				.7								.7	14.0
ESE			2.0	2.0	2.7							6.7	14.0
SE		.7	4.0	2.0								6.7	10.1
SSE				1.3								1.3	14.0
S	.7		.7									1.3	5.0
SSW	.7	1.3	.7	.7								3.3	6.8
SW	.7	2.7	4.0									7.3	6.8
WSW	.7	3.3	5.3									9.3	6.6
W	.7	4.0	24.0	16.7								45.3	9.4
WNW		2.7	6.0	2.7								11.3	8.7
NW		.7	2.0	1.3								4.0	8.8
NNW		.7										.7	4.0
VARBL													
CALM												1.3	
	3.3	16.7	48.7	27.3	2.7							100.0	9.0

TOTAL NUMBER OF OBSERVATIONS 150

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	.7	1.3									3.3	4.4
NNE													
NE	.7											.7	2.0
ENE													
E	.7			2.0								2.7	9.3
ESE		1.3	2.7	4.7								8.7	10.7
SE	1.3	.7	3.3	2.7	1.3							9.3	9.6
SSE	.7	.7										1.3	4.0
S	1.3	.7	.7	.7								3.3	6.4
SSW	1.3											1.3	1.5
SW	2.0	.7	.7									3.3	4.0
WSW	2.7	4.0	2.0									8.7	4.8
W	6.0	11.3	12.0	2.0								31.3	6.3
WNW	.7	6.0	4.0		.7							11.3	6.8
NW	1.3	2.7	.7									4.7	4.6
NNW	1.3	.7	.7									2.7	3.8
VARBL													
CALM												7.3	
	21.3	29.3	28.0	12.0	2.0							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.2	1.2	.7									3.0	4.5
NNE	.2	1.4	1.1	.3								3.1	7.2
NE	1.1	.8	.5									2.4	4.2
ENE	1.2	1.4	.1									2.7	3.8
E	4.6	1.5	1.5	.8	.2							8.6	5.1
ESE	.5	.7	1.8	3.4	.8							7.3	11.4
SE	.4	.7	2.0	1.3	.5							4.9	9.8
SSE	.4	.9	.4	.7	.1							2.5	7.8
S	1.2	1.3	1.7	.8	.2							5.3	7.0
SSW	.7	.9	.9	.3	.1							3.0	6.5
SW	.8	2.1	2.3	.2								5.5	6.3
WSW	.5	3.0	3.7	.7								7.8	7.1
W	1.5	4.2	9.7	4.4								19.8	8.2
WNW	1.2	2.2	3.1	1.7	.2							8.5	7.7
NW	1.3	1.7	1.1	.2	.1							4.4	5.6
NNW	.6	1.9	.5	.2								3.2	5.1
VARBL													
CALM												7.9	
	17.6	26.1	31.1	15.2	2.1							100.0	6.7

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.2	2.6	1.9									7.7	5.0
NNE	1.3	.6	1.3									3.2	4.4
NE	2.6	.6	.6									3.9	3.3
ENE	1.9	.6	.6									3.2	3.6
E	9.7	4.5	1.3									15.5	3.4
ESE	1.9	1.9	1.9	5.8	.6	.6						12.9	10.6
SE			1.9	1.9								3.9	11.2
SSE	.6	.6	1.3									2.6	6.3
S	.6	1.9		.6								3.2	6.2
SSW		1.3	.6									1.9	6.7
SW		1.3										1.3	5.0
WSW	.6	.6	1.3									2.6	6.3
W	.6	1.9	.6	2.6								5.8	8.9
WNW		2.6	1.3	.6								4.5	6.7
NW	3.2	1.9	1.3	.6								7.1	5.1
NNW	2.6	3.9	.6	1.3								8.4	5.7
VARBL													
CALM												12.3	
	29.0	27.1	16.8	13.5	.6	.6						100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS)

04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	2.6	1.3	.6								6.5	5.6
NNE	2.6	4.5	.6									7.7	4.7
NE	3.2	3.2	1.3									7.7	4.1
ENE	4.5	3.2										7.7	3.6
E	10.3	5.8	2.6									18.7	3.7
ESE		1.3	1.3	1.9	1.3							5.8	11.6
SE		.6	1.9	3.2	1.3							7.1	12.0
SSE		.6	.6	.6								1.9	7.7
S		1.3		.6								1.9	8.3
SSW													
SW	.6	1.3	2.6	.6								5.2	7.0
WSW	.6		.6	.6								1.9	8.3
W		.6										.6	4.0
WNW	1.3		4.5	.6								6.5	7.7
NW	2.6	.6	1.3	.6								5.2	5.5
NNW	1.3	2.6	1.3	.6								5.8	5.3
VARBL													
CALM												9.7	
	29.0	28.4	20.0	10.3	2.6							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 155

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	3.2	3.9	.6	.6								8.4	4.6
NNE	3.2	3.9	4.5	.6								12.3	5.5
NE	4.5	1.9										6.5	3.7
ENE	5.2	5.8	.6									11.6	3.7
E	9.0	5.2										14.2	2.9
ESE	3.2	1.9	1.9	1.3	1.3	.6						10.3	8.7
SE		1.9	3.2	1.3	.6							7.1	9.3
SSE			.6									.6	7.0
S		.6	.6	.6								1.9	8.3
SSW	.6		1.3	.6								2.6	8.5
SW		.0	.6	.6								1.9	10.0
WSW			.6									.6	10.0
W	.6	1.3	1.3	.6								3.9	7.2
WNW	1.9	.6	1.3									3.9	5.2
NW	.6	.6	1.3	.6								3.2	6.6
NNW	1.9	1.9	.6									4.5	4.9
VARBL													
CALM												6.5	
	34.2	30.3	19.4	7.1	1.9	.6						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	3.2	2.6	1.3								7.7	7.3
NNE		3.2	3.9	.6	.6							8.4	7.8
NE	1.3	3.9	1.9									7.1	5.4
ENE	3.2	6.5	1.9									11.6	4.7
E	3.2	1.9	1.9									7.1	4.7
ESE	2.6	2.6	1.3	3.9	1.3							11.6	9.6
SE			3.2	1.9	1.9							7.1	12.5
SSE	.6	.6	1.3	.6								3.2	6.8
S	.6		1.9	.6								3.2	7.6
SSW	.6			.6								1.3	9.0
SW		1.3	1.3	.6	1.3							4.5	10.9
WSW		.6	.6									1.3	6.5
W	2.6	1.3	1.9	.6								6.5	5.9
WNW		2.0	1.3	.6								4.5	8.0
NW		1.3	1.3	1.9								4.5	9.0
NNW		1.9	2.6	.6								5.2	8.1
VARBL													
CALM												5.2	
	15.5	31.0	29.0	14.2	5.2							100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N			1.3	.6								1.9	10.7
NNE	.6	1.9	1.9	1.9								6.5	8.1
NE	1.3	1.3	.6									3.2	4.4
ENE	.6	1.3	1.3	.6								3.9	7.3
E		.0	1.3	1.3								3.2	10.0
ESE		1.3	.6	3.2	1.9							7.1	13.0
SE			.6	5.8	.6	.6						7.7	14.9
SSE		1.3	1.9	1.3								4.5	9.1
S	.6	5.2	5.2	1.3								12.3	6.8
SSW		2.6	3.2	.6								6.5	7.6
SW		2.6	1.3	3.2								7.1	8.9
WSW		3.2	1.3	.6	.6							5.8	8.4
W	2.6	2.6	9.0	1.9								16.1	7.7
WNW	.6	.6	1.9	3.2								6.5	9.7
NW			1.9		.6							2.6	11.8
NNW		1.9	.6									2.6	5.8
VARBL													
CALM												2.6	
	6.5	26.5	34.2	25.8	3.9	.6						100.0	8.7

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS)

16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N			.6									.6	10.0
NNE			.6	.6								1.3	11.5
NE		.6	1.9									2.6	7.5
ENE		1.3	.6									1.9	6.0
E				.6								.6	13.0
ESE	.6	1.3	.6	.6		.6						3.9	9.5
SE		.6	2.6	4.5	2.6							10.3	13.3
SSE		.6	1.3	1.3								3.2	9.4
S		2.6	4.5	1.3								8.4	8.2
SSW		1.3	5.2	.6								7.1	8.4
SW	.6		3.9	1.9								6.5	8.8
WSW		3.2	3.2	4.5	1.3							12.3	10.3
W	1.9	4.5	13.5	8.4								28.4	9.0
WNW			3.2	3.9								7.1	10.7
NW		1.3	.6	1.9								3.9	9.3
NNW				.6								.6	12.0
VARBL													
CALM												1.3	
	3.2	17.4	42.6	31.0	3.9	.6						100.0	9.5

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		1.3	1.3									2.6	5.8
NNE	.6		.6									1.3	4.0
NE		.6										.6	5.0
ENE													
E	1.3	.6	.6									2.6	4.5
ESE	.6	.6	2.6	3.2								7.1	10.0
SE	.6	1.9	3.9	3.2	.6	.6						11.0	10.3
SSE	.6		1.3	1.3								3.2	8.6
S	.6	1.3	.6	.6								3.2	5.8
SSW		2.6	1.9									4.5	6.0
SW		3.2	3.2									6.5	6.6
WSW		4.5	5.2	1.9	.6							12.3	8.2
W	1.3	11.0	7.7	3.9								23.9	7.4
WNW	.6	5.2	3.2	.6								9.7	6.7
NW	1.3	2.6	.6	1.3								5.8	6.6
NNW	.6	.6										1.3	3.5
VARBL													
CALM												4.5	
	8.4	36.1	32.9	16.1	1.3	.6						100.0	7.2

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	1.9	1.3									4.5	4.9
NNE	1.3	1.3										2.6	3.0
NE	.6	.6	.6									1.9	5.0
ENE	.6	.6										1.3	4.0
E	.6	2.6	.6									3.9	5.0
ESE	1.3	2.6	2.6	2.6	1.3							10.3	9.9
SE	.6	1.3	3.2	4.5								9.7	9.6
SSE	.6	.6	.6	.6								2.6	6.8
S	1.9	.6		.6								3.2	5.0
SSW		1.3			.6							1.9	9.3
SW	.6	.6		.6								1.9	5.7
WSW	1.9	2.6	2.6	.6								7.7	5.9
W	3.2	4.5	6.5	3.9								18.1	7.5
WNW	1.3	5.2	1.9	.6								9.0	5.9
NW	2.6	2.6		1.3								6.5	5.1
NNW	.6	.6	.6	1.3								3.2	7.6
VARBL													
CALM												11.6	
	19.4	29.7	20.6	16.8	1.9							100.0	6.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	1.9	1.4	.4								5.0	5.8
NNE	1.2	1.9	1.7	.5	.1							5.4	6.1
NE	1.7	1.6	.9									4.2	4.6
ENE	2.0	2.4	.6	.1								5.2	4.4
E	4.3	2.7	1.0	.2								8.2	4.1
ESE	1.3	1.7	1.6	2.8	1.0	.2						8.6	10.2
SE	.2	.6	2.6	3.3	1.0	.2						8.0	11.6
SSE	.3	.6	1.1	.7								2.7	7.9
S	.6	1.7	1.6	.8								4.7	7.1
SSW	.2	1.1	1.5	.3	.1							3.2	7.8
SW	.2	1.4	1.6	1.0	.2							4.4	8.2
WSW	.4	1.9	1.9	1.0	.3							5.6	8.3
W	1.6	3.5	5.1	2.7								12.9	7.9
WNW	.7	2.1	2.3	1.3								6.5	7.6
NW	1.3	1.4	1.0	1.0	.1							4.8	6.8
NNW	.9	1.7	.8	.6								4.0	6.1
VARBL													
CALM												6.7	
	18.1	28.3	26.9	16.9	2.7	.4						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	4.7	5.3	.7									10.7	4.0
NNE	3.3	4.7	4.0	.7								12.7	5.3
NE	1.3	1.3	.7									3.3	4.8
ENE	6.0	3.3										9.3	3.3
E	12.0	8.0	.7									20.7	3.4
ESE	1.3	2.0	1.3	2.0								6.7	7.2
SE			.7	1.3								2.0	11.7
SSE	.7	.7	.7									2.0	5.3
S	.7	.7	1.3	.7								3.3	7.2
SSW													
SW													
WSW		1.3	.7	1.3								3.3	8.0
W	.7			.7	.7							2.0	12.7
WNW	1.3	.7	2.7	.7								5.3	6.4
NW	.7	1.3	1.3	2.0								5.3	8.9
NNW	3.3	1.3		.7								5.3	4.3
VARBL													
CALM												8.0	
	36.0	30.7	14.7	10.0	.7							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS)

04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.7	4.7	2.0									9.3	4.6
NNE	3.3	6.0	3.3	.7								13.3	5.7
NE	3.3	3.3	2.7	1.3								10.7	5.9
ENE	5.3	6.7										12.0	3.2
E	5.3	8.7	1.3									15.3	4.0
ESE	2.0	1.3	2.7	2.0								8.0	7.2
SE		.7	.7	1.3								2.7	10.0
SSE				1.3								1.3	13.5
S		.7	1.3									2.0	8.3
SSW		.7	.7									1.3	7.5
SW	.7											.7	3.0
WSW			.7	.7								1.3	11.5
W	.7	.7										1.3	3.5
WNW			1.3	1.3								2.7	11.5
NW	1.3	3.3	2.7	2.0	.7							10.0	8.1
NNW		.7	.7									1.3	6.0
VARBL													
CALM												6.7	
	24.7	37.3	20.0	10.7	.7							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	3.3	4.7									8.7	6.7
NNE	2.0	2.0	8.0	.7								12.7	6.5
NE	2.7	6.0	4.0	2.0								14.7	6.3
ENE	4.0	9.3	.7									14.0	4.2
E	6.7	6.0	.7									13.3	3.6
ESE		2.0	2.7		.7							5.3	8.6
SE			.7	.7								1.3	12.5
SSE		.7		1.3								2.0	12.0
S		.7	1.3									2.0	7.0
SSW			.7		.7							1.3	12.5
SW	.7											.7	3.0
WSW													
W		.7	1.3									2.0	8.0
WNW		.7	1.3	.7								2.7	9.3
NW	1.3	.7	.7									2.7	4.5
NNW	1.3	2.0	1.3									4.7	5.9
VARBL													
CALM												12.0	
	19.3	34.0	28.0	5.3	1.3							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.7	4.7	4.0									11.3	5.7
NNE		5.3	7.3	2.0								14.7	7.7
NE	1.3	9.3	5.3									16.0	6.0
ENE	2.7	8.0	1.3	.7								12.7	4.8
E	6.7	4.7	1.3	.7								13.3	4.5
ESE	.7	.7	1.3		1.3							4.0	11.0
SE		2.0	1.3									3.3	6.8
SSE	.7		3.3	.7								4.7	8.4
S			.7	.7	.7							2.0	14.3
SSW				.7								.7	12.0
SW		.7										.7	5.0
WSW			1.3									1.3	8.5
W		.7	.7	.7								2.0	9.0
WNW		.7		.7								1.3	8.5
NW	.7	1.3	1.3	.7	.7							4.7	8.7
NNW		1.3	2.0									3.3	8.4
VARBL													
CALM												4.0	
	15.3	39.3	31.3	7.3	2.7							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		2.7	4.0	.7								7.3	7.4
NNE		4.0	8.7	3.3	1.3							17.3	9.1
NE		4.7	4.7									9.3	6.6
ENE	1.3	4.0	1.3									6.7	5.1
E		1.3	.7	2.0	.7							4.7	10.9
ESE		1.3	1.3	3.3	.7							6.7	11.0
SE	.7		2.7	2.0	.7							6.0	10.6
SSE	2.0		1.3	1.3		.7						5.3	8.4
S	2.0	3.3	.7	2.7								8.7	7.1
SSW	.7	.7	.7									2.0	5.3
SW	.7	.7		.7								2.0	6.0
WSW	.7	1.3	1.3	.7								4.0	6.0
W	.7	2.0	4.0									6.7	6.4
WNW		.7	2.0	2.7	.7							6.0	11.4
NW	.7		1.3	2.0								4.0	9.0
NNW		.7										.7	6.0
VARBL													
CALM												2.7	
	9.3	27.3	34.7	21.3	4.0	.7						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | NOV (MONTH)

ALL WEATHER (CLASS) | 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	3.3	2.0									6.0	6.2
NNE	1.3	3.3	1.3	1.3	2.0							9.3	9.9
NE	2.7	2.0	2.0	.7								7.3	6.0
ENE			2.7									2.7	8.5
E	.7	.7	.7	.7								2.7	7.3
ESE		.7	1.3	4.0	1.3							7.3	12.5
SE		1.3	1.3	2.7								5.3	9.4
SSE		.7	1.3									2.0	7.7
S		3.3	3.3	2.0								8.7	8.4
SSW	1.3		.7	.7								2.7	6.8
SW	.7	2.0		.7	.7							4.0	7.8
WSW		3.3	1.3									4.7	6.6
W	.7	4.7	10.7	1.3								17.3	7.2
WNW		1.3	6.0	2.7	.7							10.7	9.8
NW	.7	1.3	2.0	.7								4.7	6.9
NNW			2.0	.7								2.7	9.0
VARBL													
CALM												2.0	
	8.7	28.0	38.7	18.0	4.7							100.0	8.1

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.7	3.3	1.3	.7								8.0	4.8
NNE	2.0	5.3		.7								8.0	5.3
NE	.7	3.3	.7									4.7	4.6
ENE	.7	.7										1.3	3.5
E	2.7	1.3	.7									4.7	4.3
ESE		2.0	2.7	3.3								8.0	9.9
SE		1.3	1.3									2.7	7.3
SSE	2.0	1.3	.7		.7							4.7	6.4
S	1.3	1.3	1.3	.7								4.7	6.1
SSW	.7	1.3										2.0	4.0
SW	.7	.7	.7	.7								2.7	6.8
WSW	1.3		2.0	.7								4.0	7.0
W	4.7	6.7	2.0	.7								14.0	4.9
WNW	4.0	2.0	3.3	.7								10.0	5.3
NW	4.7	2.7	1.3	1.3								10.0	5.2
NNW	3.3	2.0										5.3	3.0
VARBL													
CALM												5.3	
	31.3	35.3	18.0	9.3	.7							100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 150

5702 SURFACE WINDS JAN 78

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) 22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.7	6.0	2.0									8.7	5.5
NNE	3.3	2.0	.7									6.0	3.6
NE	2.7	.7										3.3	3.0
ENE	1.3	2.0										3.3	4.0
E	6.7	5.3	2.0									14.0	3.9
ESE	.7	2.0	4.7	2.0								9.3	8.9
SE		1.3		1.3								2.7	9.0
SSE		1.3	.7									2.0	5.0
S		.7	2.0									2.7	8.0
SSW		.7	.7									1.3	7.0
SW		.7										.7	5.0
WSW	1.3	1.3	1.3	.7								4.7	6.1
W	1.3	.7	.7	1.3	.7							4.7	8.1
WNW	2.7	.7	1.3	.7								5.3	5.5
NW	2.0	3.3	1.3	1.3								8.0	5.9
NNW	4.7	3.3	.7									8.7	3.5
VARBL													
CALM												14.7	
	27.3	32.0	18.0	7.3	.7							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.8	4.2	2.0	.2								8.7	5.5
NNE	1.9	4.1	4.2	1.2	.4							11.7	6.9
NE	1.8	3.8	2.5	.5								8.7	5.8
ENE	2.7	4.2	.7	.1								7.7	4.2
E	5.1	4.5	1.0	.4	.1							11.1	4.3
ESE	.6	1.5	2.2	2.1	.5							6.9	9.4
SE	.1	.8	1.1	1.2	.1							3.2	9.5
SSE	.7	.6	1.0	.6	.1	.1						3.0	8.0
S	.5	1.3	1.5	.8	.1							4.2	7.9
SSW	.3	.4	.4	.2	.1							1.4	7.1
SW	.4	.6	.1	.2	.1							1.4	6.4
WSW	.4	.9	1.1	.5								2.9	7.1
W	1.1	2.0	2.4	.6	.2							6.2	6.8
WNW	1.0	.8	2.2	1.2	.2							5.5	8.1
NW	1.5	1.7	1.5	1.2	.2							6.2	7.1
NNW	1.6	1.4	.8	.2								4.0	5.0
VARBL													
CALM												6.9	
	21.5	33.0	25.4	11.2	1.9	.1						100.0	6.0

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 01 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6	2.0	1.3									6.5	4.5
NNE	1.3	1.9	.6	.6								4.5	6.0
NE	1.3	5.2		.6								7.1	5.2
ENE	5.2	5.2										10.3	3.6
E	11.0	9.0	2.6	1.3								23.9	4.3
ESE	1.3	2.6	2.6	3.2								9.7	8.6
SE		1.3	.6	3.2								5.2	9.5
SSE			.6									.6	10.0
S	.6		1.3									1.9	7.0
SSW		1.3	1.3									2.6	7.3
SW		.6	1.3	1.9								3.9	10.7
WSW			.6		.6	.6						1.9	16.7
W		2.0	1.3	1.9								5.8	8.4
WNW	.6	1.3		.6								2.6	6.5
NW	.6	.6	1.3									2.6	6.0
NNW	.6	1.3	.6	.6								3.2	6.2
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	7.7	
	25.2	35.5	16.1	14.2	.6	.6						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 04 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.3	.6	1.3									3.2	5.4
NNE	1.9	9.0	4.5									15.5	5.6
NE	1.9	5.2	1.9	.6								9.7	5.5
ENE	3.2	7.7										11.0	4.1
E	7.7	9.0	1.9	1.3								20.0	4.5
ESE	1.3		1.9	2.6	.6							6.5	10.5
SE		1.3	.6	3.2								5.2	10.8
SSE		1.3	1.9									3.2	6.8
S	.6	.0	.6	1.9								3.9	9.5
SSW		1.3	.6									1.9	6.0
SW			1.3	.6								1.9	9.0
WSW			.6		.6	.6						1.9	17.0
W		.6	.6	2.6								3.9	11.2
WNW			1.3		.6							1.9	12.3
NW	.6	.6	3.2									4.5	6.4
NNW			.6	.6								1.3	9.5
VARBL													
CALM												4.5	
	18.7	37.4	23.2	13.5	1.9	.6						100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 07 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	1.9	1.9									4.5	6.6
NNE	3.9	3.9	7.1	1.3								16.1	6.2
NE	1.9	5.8	2.6			.6						11.0	6.1
ENE	2.6	8.4	1.9									12.9	4.6
E	5.8	8.4	2.6	.6								17.4	4.7
ESE	2.6		1.3	3.2								7.1	7.9
SE	.6		.6	1.3	1.3							3.9	12.3
SSE	.6		.6	.6								1.9	7.3
S	.6		1.3		1.3							3.2	10.6
SSW	.6			.6								1.3	8.5
SW			.6	1.3								1.9	11.0
WSW	.6		1.3	1.3								3.2	8.4
W	.6	.6		1.9								3.2	9.2
WNW	.6		.6	1.3								2.6	9.8
NW	.6	1.3	.6	.6								3.2	7.0
NNW		.6										.6	4.0
VARBL													
CALM												5.8	
	22.6	31.0	23.2	14.2	2.6	.6						100.0	6.3

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 10 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N		3.2	1.9									5.2	6.0
NNE	3.9	7.7	5.8	.6	.6							18.7	6.4
NE	1.9	7.1	5.8	1.3								16.1	6.9
ENE	3.2	4.5	.6									8.4	4.2
E	3.2	3.9	1.3	1.3								9.7	5.7
ESE		1.3	1.3	1.3	.6							4.5	10.3
SE		3.2	1.3	2.6								7.1	9.2
SSE		.6										.6	5.0
S	1.3		.6	1.9	.6							4.5	10.9
SSW	.6		1.9	1.3								3.9	9.0
SW		1.3		1.9		.6						3.9	13.2
WSW						.6						.6	23.0
W	.6	.6	.6	1.3								3.2	8.6
WNW			1.3	.6								1.9	9.3
NW		.6	1.9	.6	.6							3.9	10.0
NNW		.6		.6								1.3	9.0
VARBL													
CALM												6.5	
	14.8	34.0	24.5	15.5	2.6	1.3						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 13 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.9	1.3	1.9	1.3								6.5	6.9
NNE	1.9	3.9	3.9	3.2								12.9	7.5
NE	.6	1.9	4.5	.6		.6						6.4	9.0
ENE		3.2	3.9									7.1	6.6
E		3.2	1.9	1.9	1.9							9.0	10.8
ESE		.6	1.3	2.6	1.3	1.3						7.1	14.5
SE		.6	3.9	2.6	1.3							8.4	10.8
SSE	.6		1.9	1.9								4.5	9.9
S	.6	1.3	2.6	2.6		.6						7.7	10.6
SSW		.6	1.9	1.3								3.9	9.5
SW	.6	.6		.6	.6							2.6	8.8
WSW			.6									.6	8.0
W		1.3	3.2	2.6	1.9							9.0	11.0
WNW		1.3	.6	1.3								3.2	9.6
NW		.6	1.3	2.6								4.5	11.6
NNW			.6									.6	8.0
VARBL													
CALM												3.9	
	6.5	20.6	34.2	25.2	7.1	2.6						100.0	9.3

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) 16 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.6	2.6	3.9	.6								7.7	7.4
NNE	.6	1.3	3.2	2.6								7.7	8.6
NE			3.2	.6		.6						4.5	11.0
ENE		1.3	.6									1.9	6.7
E	1.3	1.3	2.6	3.2								8.4	9.5
ESE	1.3	.6	4.5	4.5	.6							11.6	10.7
SE			2.6	2.6	.6							5.8	12.2
SSE		2.6	1.9	1.9								6.5	8.4
S		.6	3.9	.6	1.3							6.5	10.3
SSW	.6	1.9	.6	1.3								4.5	7.4
SW		.6	1.3	2.6	.6							5.2	12.0
WSW	.6		.6									1.3	4.5
W	.6	2.6	2.6	3.2	1.3							10.3	9.9
WNW	1.3	1.3	3.2	4.5		.6						11.0	9.9
NW		1.3	1.3									2.6	6.8
NNW		1.3	1.3	.6								3.2	7.6
VARBL													
CALM												1.3	
	7.1	19.4	37.4	29.0	4.5	1.3						100.0	9.4

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS)

19 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6		1.3	1.3								5.2	6.4
NNE	.6	4.5	1.3									6.5	5.2
NE	1.3	1.3		.6								3.2	5.8
ENE	1.3	.6										1.9	3.0
E	1.9	5.2	2.6	1.9								11.6	6.6
ESE		1.9	6.5	2.6								11.0	9.4
SE	.6	1.3	3.2	.6								5.8	7.9
SSE	.6		1.9	1.3								3.9	8.7
S	1.9	1.3	1.9									5.2	5.1
SSW		.6	.6	2.6								3.9	12.2
SW	.6		1.9	1.3								3.9	9.2
WSW	1.3		1.9	.6								3.9	7.7
W	2.6	3.9		2.6	1.9							11.0	8.6
WNW	1.3	1.3	2.6	.6								5.8	6.3
NW	1.3	.6										1.9	2.7
NNW	3.2	1.9	.6	.6								6.5	4.2
VARBL													
CALM												9.0	
	21.3	24.5	26.5	16.8	1.9							100.0	6.5

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS)

22 (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	2.6	2.6	.6									5.8	4.1
NNE	.6	1.9	1.9	1.3								5.8	7.3
NE	1.9	1.9	.6									4.5	4.0
ENE	3.9	1.9										5.8	3.6
E	5.8	9.7	5.2	1.9								22.6	5.6
ESE	1.3	3.2	1.3	2.6	.6							9.0	8.0
SE	.6	1.3	1.9	1.3								5.2	7.6
SSE		.6		1.9								2.6	10.0
S		.6	.6	.6								1.9	9.7
SSW		1.3	.6									1.9	6.0
SW		.6	.6	1.9								3.2	10.6
WSW			1.9	1.9	1.3							5.2	13.4
W	.6	.6	1.3	1.9	.6	.6						5.8	11.6
WNW	.3	.6		.6								1.9	6.0
NW	.6	3.2	.6	.6								5.2	5.9
NNW			.6									.6	9.0
VARBL													
CALM												12.9	
	18.7	30.3	18.1	16.8	2.6	.6						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.5	1.9	1.8	.4								5.6	6.0
NNE	1.9	4.3	3.5	1.2	.1							11.0	6.5
NE	1.4	3.5	2.3	.6		.2						8.1	6.7
ENE	2.4	4.1	.9									7.4	4.4
E	4.6	6.2	2.6	1.7	.2							15.3	5.8
ESE	1.0	1.3	2.6	2.8	.5	.2						8.3	9.9
SE	.2	1.1	1.9	2.2	.4							5.8	10.0
SSE	.2	.6	1.1	1.0								3.0	8.5
S	.7	.6	1.6	1.0	.4	.1						4.4	9.4
SSW	.2	.9	1.0	.9								3.0	8.6
SW	.2	.5	.9	1.5	.2	.1						3.3	10.8
WSW	.3		1.0	.5	.3	.2						2.3	11.6
W	.6	1.6	1.2	2.3	.7	.1						6.5	9.8
WNW	.6	.7	1.2	1.2	.1	.1						3.9	8.8
NW	.5	1.1	1.3	.6	.1							3.5	7.4
NNW	.5	.7	.6	.4								2.2	6.3
VARBL													
CALM												6.5	
	16.9	29.2	25.4	18.1	3.0	1.0						100.0	7.1

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) ALL (MONTH)

ALL WEATHER (CLASS) ALL (HOURS (L.S.T.))

(CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	1.1	1.9	1.2	.3								4.5	5.6
NNE	.9	2.0	1.8	.5	.1	.0						5.3	6.6
NE	1.1	1.7	1.2	.2	.0	.0						4.3	5.8
ENE	2.0	2.3	.5	.1	.0							5.0	4.3
E	4.1	3.4	1.4	.9	.1	.1	.0					10.0	5.4
ESE	.8	1.2	1.9	2.4	.6	.1	.0					7.0	10.1
SE	.5	.9	1.3	1.7	.3	.0						4.7	9.8
SSE	.5	.9	1.0	.8	.0	.0						3.2	7.9
S	.9	1.6	1.8	.8	.1	.0	.0					5.2	7.2
SSW	.6	1.4	1.3	.6	.1	.0	.0					3.9	7.2
SW	.6	1.6	2.0	1.0	.1	.0						5.3	7.8
WSW	.5	1.8	2.9	1.3	.2	.0						6.7	8.2
W	1.2	3.2	5.9	3.1	.3	.0	.0					13.6	8.4
WNW	1.0	1.7	2.5	1.5	.2	.0	.0					6.8	8.1
NW	.9	1.5	1.5	.7	.1	.0	.0					4.6	7.2
NNW	.8	1.3	.7	.3	.0	.0						3.2	5.9
VARBL													
CALM												6.7	
	17.5	28.3	28.9	16.0	2.2	.4	.1					100.0	6.8

TOTAL NUMBER OF OBSERVATIONS 14608

5702 SURFACE WINDS JAN 78

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) ALL (MONTH)

INSTRUMENT (CLASS) ALL (HOURS (L.S.T.))

CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE, AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE (CONDITION)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥56	%	MEAN WIND SPEED
N	.8	1.3	.5	.2								2.7	4.7
NNE	.3	1.4		.2								1.9	5.0
NE	.3	.6	.6	.2								1.7	6.2
ENE	1.1	1.3	.2									2.5	3.9
E	4.9	3.0	.3	.5								8.7	3.7
ESE	1.1	1.1	.3	.3	.2							3.0	6.0
SE	.8	.8	.8	.3	.3							3.0	7.8
SSE	.9	2.1	2.5	1.3	.3	.2						7.3	8.3
S	1.7	3.3	4.0	2.7	1.3	.2	.2					13.3	9.2
SSW	.6	4.0	4.3	2.4	.3		.2					11.7	8.5
SW	1.3	2.2	2.7	3.6	.6							10.4	9.5
WSW	.3	4.1	3.5	1.3	.2	.2						9.5	7.9
W	.9	3.6	3.5	3.0	1.1	.2						12.3	9.2
WNW	.6	.6	.9	.2		.2	.2					2.7	8.6
NW	.5	.8	.2	.2			.2					1.7	7.7
NNW	.5	.6				.2						1.3	6.3
VARBL													
CALM												6.2	
	16.8	30.9	24.2	16.1	4.3	.9	.6					100.0	7.3

TOTAL NUMBER OF OBSERVATIONS 632

DIRNAVOCEANMET SMOS

5702 SURFACE WINDS JAN 78

NWSD, Federal Building

Asheville, N. C.

PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 1800 ≥ 1500					91.0											92.6
≥ 1200 ≥ 1000																
≥ 900 ≥ 800																
≥ 700 ≥ 600																
≥ 500 ≥ 400										97.4						98.1
≥ 300 ≥ 200																
≥ 100 ≥ 0					95.4		96.9			98.3						100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0.
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0. From the table:
Visibility ≥ 3 miles = 95.4%.
Visibility ≥ 2 miles = 96.9%.
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4 Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5 To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of $\geq$ 1500 feet with $\geq$ 3 miles, subtracted from 97.4 read from the table at the intersection of $\geq$ 500 feet with $\geq$ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling $\geq$ 500 feet with visibility $\geq$ 1 mile, but < 3 miles; or ceiling $\geq$ 500 feet, but < 1500 feet with visibility $\geq$ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.

2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

OKTAS	TENTHS
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

01 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		56.8	61.9	63.2	63.2	63.2	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	66.5	67.1
≥ 20000		58.1	63.2	64.5	64.5	64.5	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	67.7	68.4
≥ 18000		58.1	63.2	64.5	64.5	64.5	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	67.7	68.4
≥ 16000		58.1	63.2	64.5	64.5	64.5	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	67.7	68.4
≥ 14000		59.4	64.5	65.8	65.8	65.8	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	69.0	69.7
≥ 12000		60.0	65.2	66.5	66.5	66.5	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	69.7	70.3
≥ 10000		63.2	68.4	69.7	69.7	69.7	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.9	73.6
≥ 9000		63.2	68.4	69.7	69.7	69.7	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.9	73.6
≥ 8000		66.5	71.6	72.9	72.9	72.9	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	76.1	76.8
≥ 7000		67.1	72.3	73.6	73.6	73.6	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	76.8	77.4
≥ 6000		67.7	72.9	74.2	74.2	74.2	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	77.4	78.1
≥ 5000		69.7	74.8	76.1	76.1	76.1	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	79.4	80.0
≥ 4500		70.3	75.5	77.4	77.4	77.4	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	80.7	81.3
≥ 4000		74.2	79.4	81.3	81.3	81.3	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83.2	84.5	85.2
≥ 3500		75.5	80.7	82.6	82.6	82.6	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	85.8	86.5
≥ 3000		76.1	81.3	83.2	83.2	83.2	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	86.5	87.1
≥ 2500		78.1	83.2	85.2	85.2	85.2	86.5	86.5	86.5	87.1	87.1	87.1	87.1	87.1	88.4	89.0
≥ 2000		78.1	83.2	85.2	85.2	85.2	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	89.0	89.7
≥ 1800		78.7	83.9	85.8	85.8	85.8	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88.4	89.7	90.3
≥ 1500		80.7	86.5	89.0	89.0	89.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	92.9	93.6
≥ 1200		80.7	87.1	89.7	89.7	89.7	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	93.6	94.2
≥ 1000		81.3	88.4	91.0	91.0	91.0	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	94.8	95.5
≥ 900		81.3	88.4	91.0	91.0	91.0	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	94.8	95.5
≥ 800		81.9	89.0	91.6	91.6	91.6	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	95.5	96.1
≥ 700		82.6	89.7	92.3	92.3	92.3	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	96.1	96.8
≥ 600		83.2	90.3	92.9	92.9	92.9	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	96.8	97.4
≥ 500		83.2	90.3	92.9	92.9	92.9	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	96.8	97.4
≥ 400		83.9	91.0	93.6	93.6	93.6	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	97.4	98.1
≥ 300		83.9	91.0	93.6	93.6	93.6	95.5	96.1	96.1	96.8	96.8	96.8	96.8	96.8	98.1	98.7
≥ 200		83.9	91.0	93.6	93.6	93.6	95.5	96.1	96.1	96.8	96.8	96.8	96.8	96.8	98.1	98.7
≥ 100		83.9	91.0	93.6	93.6	93.6	95.5	96.1	96.1	96.8	96.8	96.8	96.8	96.8	98.1	98.7
0		83.9	91.0	93.6	93.6	93.6	95.5	96.1	96.1	96.8	96.8	96.8	96.8	96.8	98.1	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

04 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		53.6	60.0	60.7	62.6	62.6	63.2	63.9	63.9	63.9	63.9	63.9	64.5	65.2	65.8	67.7
≥ 20000		56.8	63.2	63.9	65.8	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.7	68.4	69.0	71.0
≥ 18000		56.8	63.2	63.9	65.8	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.7	68.4	69.0	71.0
≥ 16000		56.8	63.2	63.9	65.8	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.7	68.4	69.0	71.0
≥ 14000		57.4	63.9	64.5	66.5	66.5	67.1	67.7	67.7	67.7	67.7	67.7	68.4	69.0	69.7	71.6
≥ 12000		57.4	63.9	64.5	66.5	66.5	67.1	67.7	67.7	67.7	67.7	67.7	68.4	69.0	69.7	71.6
≥ 10000		60.0	66.5	67.1	69.0	69.0	69.7	70.3	70.3	70.3	70.3	70.3	71.0	71.6	72.3	74.2
≥ 9000		60.0	66.5	67.1	69.0	69.0	69.7	70.3	70.3	70.3	70.3	70.3	71.0	71.6	72.3	74.2
≥ 8000		63.2	69.7	70.3	72.3	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.8	75.5	76.1	78.1
≥ 7000		63.9	70.3	71.0	72.9	72.9	74.2	74.8	74.8	74.8	74.8	74.8	75.5	76.1	76.8	78.7
≥ 6000		63.9	70.3	71.0	72.9	72.9	74.2	74.8	74.8	74.8	74.8	74.8	75.5	76.1	76.8	78.7
≥ 5000		63.9	70.3	71.0	72.9	72.9	74.2	74.8	74.8	74.8	74.8	74.8	75.5	76.1	76.8	78.7
≥ 4500		63.9	70.3	71.0	72.9	72.9	74.2	74.8	74.8	74.8	74.8	74.8	75.5	76.1	76.8	78.7
≥ 4000		68.4	74.8	75.5	77.4	77.4	78.7	79.4	79.4	79.4	79.4	79.4	80.0	80.7	81.3	83.2
≥ 3500		69.0	76.1	76.8	78.7	78.7	80.0	80.7	80.7	80.7	80.7	80.7	81.3	81.9	82.6	84.5
≥ 3000		73.6	80.7	81.3	83.2	83.2	84.5	85.2	85.2	85.2	85.2	85.2	85.8	86.5	87.1	89.0
≥ 2500		76.1	83.9	84.5	86.5	86.5	87.7	88.4	88.4	88.4	88.4	88.4	89.0	89.7	90.3	92.3
≥ 2000		78.1	85.8	86.5	88.4	88.4	89.7	90.3	90.3	90.3	90.3	90.3	91.0	91.6	92.3	94.2
≥ 1800		78.1	85.8	86.5	88.4	88.4	89.7	90.3	90.3	90.3	90.3	90.3	91.0	91.6	92.3	94.2
≥ 1500		78.1	85.8	86.5	88.4	88.4	90.3	91.0	91.0	91.0	91.0	91.0	91.6	92.3	92.9	94.8
≥ 1200		78.1	85.8	87.1	89.7	89.7	91.6	92.3	92.3	92.3	92.3	92.3	92.9	93.6	94.2	96.1
≥ 1000		78.7	86.5	87.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	94.2	94.8	96.8
≥ 900		78.7	86.5	87.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	94.2	94.8	96.8
≥ 800		78.7	86.5	87.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	94.2	94.8	96.8
≥ 700		78.7	86.5	87.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	94.2	94.8	96.8
≥ 600		78.7	86.5	87.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	94.2	94.8	96.8
≥ 500		78.7	86.5	87.7	90.3	90.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	94.2	94.8	97.4
≥ 400		78.7	86.5	88.4	91.0	91.0	92.9	93.6	93.6	93.6	93.6	93.6	94.2	94.8	95.5	98.1
≥ 300		78.7	86.5	88.4	91.0	91.0	92.9	93.6	93.6	93.6	93.6	93.6	94.2	94.8	95.5	98.1
≥ 200		78.7	86.5	88.4	91.0	91.0	92.9	93.6	93.6	93.6	93.6	93.6	94.2	94.8	95.5	98.1
≥ 100		78.7	86.5	88.4	91.0	91.0	92.9	93.6	93.6	93.6	93.6	93.6	94.2	94.8	95.5	98.7
0		78.7	86.5	88.4	91.0	91.0	92.9	93.6	93.6	93.6	93.6	93.6	94.2	94.8	95.5	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH) 07 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		51.0	52.9	56.1	58.7	58.7	58.7	58.7	58.7	60.7	60.7	60.7	60.7	61.3	61.3	61.9
≥ 20000		52.9	54.8	58.1	60.7	60.7	60.7	60.7	60.7	62.6	62.6	62.6	62.6	63.2	63.2	63.9
≥ 18000		52.9	54.8	58.1	60.7	60.7	60.7	60.7	60.7	62.6	62.6	62.6	62.6	63.2	63.2	63.9
≥ 16000		52.9	54.8	58.1	60.7	60.7	60.7	60.7	60.7	62.6	62.6	62.6	62.6	63.2	63.2	63.9
≥ 14000		52.9	54.8	58.1	60.7	60.7	60.7	60.7	60.7	62.6	62.6	62.6	62.6	63.2	63.2	63.9
≥ 12000		52.9	54.8	58.1	60.7	60.7	60.7	60.7	60.7	62.6	62.6	62.6	62.6	63.2	63.2	63.9
≥ 10000		53.6	55.5	58.7	61.3	61.3	61.3	61.3	61.3	63.2	63.2	63.2	63.2	63.9	63.9	64.5
≥ 9000		55.5	57.4	60.7	63.2	63.2	63.2	63.2	63.2	65.2	65.2	65.2	65.2	65.8	65.8	66.5
≥ 8000		56.1	58.1	61.3	63.9	63.9	63.9	63.9	63.9	65.8	65.8	65.8	65.8	66.5	66.5	67.1
≥ 7000		56.1	58.1	61.3	64.5	64.5	64.5	64.5	64.5	66.5	66.5	66.5	66.5	67.1	67.1	67.7
≥ 6000		57.4	59.4	62.6	65.8	65.8	65.8	65.8	65.8	67.7	67.7	67.7	67.7	68.4	68.4	69.0
≥ 5000		58.1	60.0	63.2	66.5	66.5	66.5	66.5	66.5	68.4	68.4	68.4	68.4	69.0	69.0	69.7
≥ 4500		58.1	60.0	63.2	66.5	66.5	66.5	66.5	66.5	68.4	68.4	68.4	68.4	69.0	69.0	69.7
≥ 4000		60.7	62.6	65.8	69.0	69.0	69.0	69.0	69.0	71.0	71.0	71.0	71.0	71.6	71.6	72.3
≥ 3500		64.5	66.5	69.7	72.9	72.9	72.9	72.9	72.9	74.8	74.8	74.8	74.8	75.5	75.5	76.1
≥ 3000		68.4	70.3	73.6	76.8	76.8	76.8	76.8	76.8	78.7	78.7	78.7	78.7	79.4	79.4	80.0
≥ 2500		71.6	74.8	78.7	81.9	81.9	81.9	81.9	81.9	83.9	83.9	83.9	83.9	84.5	84.5	85.2
≥ 2000		73.6	77.4	81.3	84.5	84.5	84.5	84.5	84.5	86.5	86.5	86.5	86.5	87.1	87.1	87.7
≥ 1800		73.6	77.4	81.3	84.5	84.5	85.2	85.2	85.2	87.1	87.1	87.1	87.1	87.7	87.7	88.4
≥ 1500		74.8	79.4	83.2	87.1	87.1	87.7	87.7	87.7	89.7	89.7	89.7	89.7	90.3	90.3	91.0
≥ 1200		75.5	80.7	85.2	89.0	89.0	89.7	89.7	89.7	91.6	91.6	91.6	91.6	92.3	92.3	92.9
≥ 1000		76.1	81.3	85.8	89.7	89.7	90.3	90.3	90.3	92.3	92.3	92.3	92.3	92.9	92.9	93.6
≥ 900		76.1	81.3	85.8	89.7	89.7	90.3	90.3	90.3	92.3	92.3	92.3	92.3	92.9	92.9	93.6
≥ 800		76.1	81.3	85.8	89.7	89.7	90.3	90.3	90.3	92.3	92.3	92.3	92.3	92.9	92.9	93.6
≥ 700		76.1	81.3	85.8	89.7	89.7	90.3	90.3	90.3	92.3	92.3	92.3	92.3	92.9	92.9	93.6
≥ 600		76.1	81.3	85.8	90.3	90.3	91.0	91.0	91.0	92.9	92.9	92.9	92.9	93.6	93.6	94.2
≥ 500		76.1	81.3	86.5	91.0	91.0	91.6	91.6	91.6	93.6	93.6	93.6	93.6	94.2	94.2	94.8
≥ 400		76.1	81.3	86.5	91.0	91.0	91.6	91.6	91.6	93.6	93.6	93.6	93.6	94.2	94.2	94.8
≥ 300		76.1	81.3	86.5	91.0	91.0	92.3	92.3	92.3	94.2	94.2	94.2	94.2	94.8	94.8	95.5
≥ 200		76.1	81.3	86.5	91.6	91.6	92.9	92.9	92.9	94.8	94.8	94.8	94.8	95.5	95.5	96.1
≥ 100		76.1	81.3	86.5	91.6	91.6	92.9	92.9	92.9	94.8	94.8	94.8	94.8	96.1	96.8	97.4
0		76.1	81.3	86.5	91.6	91.6	92.9	92.9	92.9	94.8	94.8	94.8	94.8	96.1	96.8	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH) 10 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		44.5	47.7	52.3	52.9	52.9	53.6	54.2	54.2	54.2	54.2	54.2	54.8	54.8	54.8	56.8
≥ 20000		47.7	51.6	56.1	57.4	57.4	58.1	58.7	58.7	58.7	58.7	58.7	59.4	59.4	59.4	63.2
≥ 18000		47.7	51.6	56.1	57.4	57.4	58.1	58.7	58.7	58.7	58.7	58.7	59.4	59.4	59.4	63.2
≥ 16000		47.7	51.6	56.1	57.4	57.4	58.1	58.7	58.7	58.7	58.7	58.7	59.4	59.4	59.4	63.2
≥ 14000		47.7	51.6	56.1	57.4	57.4	58.1	58.7	58.7	58.7	58.7	58.7	59.4	59.4	59.4	63.2
≥ 12000		47.7	52.3	56.8	58.1	58.1	58.7	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	63.9
≥ 10000		49.0	53.6	58.7	60.0	60.0	60.7	61.3	61.3	61.3	61.3	61.3	61.9	61.9	61.9	65.8
≥ 9000		49.7	54.2	59.4	60.7	60.7	61.3	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	66.5
≥ 8000		52.9	57.4	62.6	63.9	63.9	64.5	65.2	65.2	65.2	65.2	65.2	65.8	65.8	65.8	69.7
≥ 7000		54.8	59.4	64.5	65.8	65.8	67.1	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68.4	72.3
≥ 6000		54.8	59.4	64.5	65.8	65.8	67.1	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68.4	72.3
≥ 5000		55.5	60.7	65.8	67.1	67.1	68.4	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7	73.6
≥ 4500		55.5	60.7	65.8	67.1	67.1	68.4	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7	73.6
≥ 4000		56.1	61.3	66.5	67.7	67.7	69.0	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	74.2
≥ 3500		58.7	63.9	69.0	70.3	70.3	72.3	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	77.4
≥ 3000		62.6	67.7	72.9	74.2	74.2	76.1	76.8	76.8	76.8	76.8	76.8	77.4	77.4	77.4	81.3
≥ 2500		65.2	70.3	75.5	78.1	78.1	80.0	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	85.2
≥ 2000		67.7	73.6	78.7	81.9	81.9	83.9	84.5	85.2	85.2	85.2	85.2	85.8	85.8	85.8	89.7
≥ 1800		67.7	73.6	78.7	81.9	81.9	83.9	84.5	85.2	85.2	85.2	85.2	85.8	85.8	85.8	89.7
≥ 1500		69.7	76.1	81.3	84.5	84.5	86.5	87.1	87.7	87.7	87.7	87.7	88.4	88.4	88.4	92.3
≥ 1200		70.3	76.8	81.9	85.2	85.2	87.1	87.7	88.4	88.4	88.4	88.4	89.0	89.0	89.0	92.9
≥ 1000		70.3	76.8	82.6	85.8	85.8	87.7	88.4	89.0	89.0	89.0	89.0	89.7	89.7	89.7	93.6
≥ 900		70.3	76.8	82.6	85.8	85.8	87.7	88.4	89.0	89.0	89.0	89.0	89.7	89.7	89.7	93.6
≥ 800		70.3	77.4	83.2	87.1	87.1	89.0	89.7	90.3	90.3	90.3	90.3	91.0	91.0	91.0	94.8
≥ 700		70.3	77.4	83.2	87.1	87.1	89.0	89.7	90.3	90.3	90.3	90.3	91.0	91.0	91.0	94.8
≥ 600		70.3	77.4	83.2	87.1	87.1	89.0	89.7	90.3	90.3	90.3	90.3	91.0	91.0	91.0	94.8
≥ 500		70.3	77.4	83.2	87.1	87.1	89.0	89.7	90.3	90.3	90.3	90.3	91.0	91.0	91.0	94.8
≥ 400		70.3	77.4	83.9	88.4	88.4	90.3	91.0	91.6	91.6	91.6	91.6	92.3	92.3	92.3	96.1
≥ 300		70.3	77.4	83.9	88.4	88.4	90.3	91.0	91.6	91.6	91.6	91.6	92.3	92.3	92.3	96.1
≥ 200		70.3	77.4	83.9	88.4	88.4	90.3	91.0	91.6	91.6	91.6	91.6	92.3	92.3	92.3	96.1
≥ 100		70.3	77.4	83.9	88.4	88.4	90.3	91.0	91.6	91.6	91.6	91.6	92.3	92.3	93.6	99.4
0		70.3	77.4	83.9	88.4	88.4	90.3	91.0	91.6	91.6	91.6	91.6	92.3	92.3	93.6	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH) 13 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		51.6	57.4	58.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000		54.8	61.9	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 18000		54.8	61.9	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 16000		54.8	61.9	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 14000		54.8	61.9	63.2	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 12000		55.5	62.6	63.9	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 10000		56.8	64.5	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 9000		59.4	67.1	68.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 8000		63.9	71.6	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 7000		65.2	73.6	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 6000		65.2	73.6	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 5000		65.2	73.6	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 4500		65.2	73.6	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 4000		68.4	77.4	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3500		71.0	80.7	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3000		73.6	83.2	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2500		76.8	86.5	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000		79.4	90.3	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1800		79.4	90.3	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1500		80.0	91.0	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200		80.7	91.6	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000		80.7	92.9	95.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900		80.7	92.9	95.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		80.7	92.9	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700		80.7	92.9	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600		80.7	92.9	96.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		80.7	92.9	96.1	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		80.7	92.9	96.1	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		80.7	92.9	96.1	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		80.7	92.9	96.1	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 100		80.7	92.9	96.1	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0
0		80.7	92.9	96.1	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

16 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		56.8	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000		61.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 18000		61.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 16000		61.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 14000		62.6	65.2	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 12000		63.9	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 10000		65.2	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 9000		67.1	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000		71.6	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 7000		73.6	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 6000		74.8	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 5000		75.5	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500		75.5	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4000		78.7	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3500		79.4	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000		81.9	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2500		85.8	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2000		89.0	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800		89.7	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500		91.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200		91.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000		92.3	95.5	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900		92.3	95.5	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800		92.9	96.1	96.1	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700		92.9	96.1	96.1	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600		92.9	96.1	96.1	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500		92.9	96.1	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		92.9	96.1	96.1	98.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		92.9	96.1	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.9	96.1	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		92.9	96.1	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
0		92.9	96.1	96.1	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

19 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		54.2	56.1	58.1	58.7	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000		56.8	58.7	60.7	61.3	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 18000		56.8	58.7	60.7	61.3	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 16000		56.8	58.7	60.7	61.3	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000		57.4	59.4	61.3	61.9	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 12000		58.1	60.0	61.9	62.6	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 10000		59.4	61.3	63.2	63.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000		60.7	62.6	64.5	65.2	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 8000		63.9	65.8	67.7	68.4	69.0	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 7000		65.8	67.7	69.7	70.3	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000		65.8	67.7	69.7	70.3	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000		68.4	70.3	72.3	72.9	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500		68.4	70.3	72.3	72.9	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000		71.6	73.6	75.5	76.1	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 3500		74.8	76.8	78.7	79.4	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3000		80.7	82.6	84.5	85.2	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2500		84.5	87.1	89.0	89.7	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000		87.1	89.7	91.6	92.3	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800		87.7	90.3	92.3	92.9	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1500		87.7	92.3	94.2	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200		87.7	92.3	94.2	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000		87.7	92.9	94.8	95.5	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900		87.7	93.6	95.5	96.1	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		87.7	94.2	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4
0		87.7	94.2	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

22 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		61.9	65.2	65.2	65.2	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 20000		65.8	69.0	69.0	69.0	69.0	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 18000		65.8	69.0	69.0	69.0	69.0	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 16000		65.8	69.0	69.0	69.0	69.0	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 14000		65.8	69.0	69.0	69.0	69.0	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 12000		65.8	69.0	69.0	69.0	69.0	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 10000		68.4	71.6	71.6	71.6	71.6	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 9000		69.7	72.9	72.9	72.9	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000		71.0	74.8	74.8	74.8	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 7000		74.8	78.7	78.7	78.7	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000		74.8	78.7	78.7	78.7	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 5000		76.8	80.7	80.7	80.7	80.7	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500		78.1	81.9	81.9	81.9	81.9	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 4000		81.3	85.2	85.2	85.2	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500		83.2	87.1	87.1	87.1	87.1	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3000		84.5	88.4	88.4	88.4	88.4	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2500		85.8	89.7	89.7	89.7	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2000		87.7	91.6	91.6	91.6	91.6	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1800		88.4	92.3	92.3	92.3	92.3	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500		89.7	94.2	94.2	94.2	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200		89.7	94.2	94.8	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1000		90.3	94.8	95.5	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900		91.0	95.5	96.1	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		91.6	96.1	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700		91.6	96.1	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600		91.6	96.1	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500		91.6	96.1	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 400		91.6	96.1	96.8	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 300		91.6	96.1	96.8	96.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		91.6	96.1	96.8	96.8	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		91.6	96.1	96.8	96.8	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0		91.6	96.1	96.8	96.8	96.8	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JAN (MONTH)

ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		53.8	57.6	59.2	60.2	60.2	60.7	61.0	61.0	61.3	61.3	61.3	61.5	61.6	61.9	62.5
≥ 20000		56.9	60.9	62.5	63.6	63.6	64.0	64.4	64.4	64.7	64.7	64.7	64.8	65.0	65.2	66.1
≥ 18000		56.9	60.9	62.5	63.6	63.6	64.0	64.4	64.4	64.7	64.7	64.7	64.8	65.0	65.2	66.1
≥ 16000		56.9	60.9	62.5	63.6	63.6	64.0	64.4	64.4	64.7	64.7	64.7	64.8	65.0	65.2	66.1
≥ 14000		57.3	61.3	62.9	64.0	64.0	64.4	64.8	64.8	65.1	65.1	65.1	65.2	65.4	65.7	66.5
≥ 12000		57.7	61.8	63.4	64.4	64.5	64.9	65.2	65.2	65.6	65.6	65.6	65.7	65.9	66.1	67.0
≥ 10000		59.4	63.6	65.3	66.4	66.5	66.9	67.2	67.2	67.5	67.5	67.5	67.7	67.8	68.1	69.0
≥ 9000		60.7	64.8	66.5	67.6	67.7	68.1	68.4	68.4	68.7	68.7	68.7	68.9	69.0	69.3	70.2
≥ 8000		63.6	67.9	69.6	70.7	70.7	71.2	71.5	71.5	71.9	71.9	71.9	72.0	72.2	72.4	73.3
≥ 7000		65.2	69.5	71.2	72.3	72.4	73.0	73.3	73.3	73.6	73.6	73.6	73.8	74.0	74.2	75.1
≥ 6000		65.6	69.9	71.6	72.7	72.8	73.4	73.7	73.7	74.0	74.0	74.0	74.2	74.4	74.6	75.5
≥ 5000		66.6	71.1	72.7	73.9	74.0	74.5	74.8	74.8	75.2	75.2	75.2	75.3	75.5	75.7	76.6
≥ 4500		66.9	71.3	73.1	74.2	74.3	74.8	75.2	75.2	75.5	75.5	75.5	75.7	75.8	76.1	76.9
≥ 4000		69.9	74.4	76.3	77.4	77.5	78.1	78.4	78.4	78.7	78.7	78.7	78.9	79.0	79.3	80.2
≥ 3500		72.0	76.7	78.6	79.7	79.8	80.4	80.7	80.7	81.1	81.1	81.1	81.2	81.4	81.6	82.5
≥ 3000		75.2	79.8	81.8	83.0	83.1	83.7	84.0	84.0	84.4	84.4	84.4	84.5	84.7	84.9	85.8
≥ 2500		78.0	83.0	85.0	86.4	86.5	87.1	87.4	87.4	87.7	87.7	87.7	87.9	88.1	88.3	89.2
≥ 2000		80.1	85.4	87.4	88.9	89.0	89.7	90.0	90.1	90.4	90.4	90.4	90.6	90.7	91.0	91.9
≥ 1800		80.4	85.7	87.7	89.2	89.3	90.1	90.4	90.5	90.8	90.8	90.8	91.0	91.1	91.4	92.3
≥ 1500		81.5	87.5	89.6	91.1	91.2	92.1	92.4	92.5	92.8	92.8	92.8	93.0	93.2	93.4	94.3
≥ 1200		81.8	87.9	90.2	91.9	91.9	92.8	93.2	93.2	93.6	93.6	93.6	93.7	93.9	94.1	95.0
≥ 1000		82.2	88.6	91.1	92.7	92.8	93.7	94.0	94.1	94.4	94.4	94.4	94.6	94.8	95.0	95.9
≥ 900		82.3	88.8	91.2	92.9	93.0	93.9	94.2	94.3	94.6	94.6	94.6	94.8	94.9	95.2	96.1
≥ 800		82.5	89.2	91.7	93.5	93.6	94.5	94.8	94.9	95.2	95.2	95.2	95.4	95.6	95.8	96.7
≥ 700		82.6	89.3	91.8	93.6	93.6	94.7	95.0	95.1	95.4	95.4	95.4	95.6	95.7	96.0	96.9
≥ 600		82.7	89.4	91.9	93.7	93.8	94.9	95.2	95.3	95.7	95.7	95.7	95.8	96.0	96.2	97.1
≥ 500		82.7	89.4	91.9	93.9	94.0	95.2	95.6	95.7	96.0	96.0	96.0	96.1	96.3	96.5	97.5
≥ 400		82.7	89.4	92.2	94.2	94.3	95.5	95.9	96.0	96.3	96.3	96.3	96.5	96.6	96.9	97.8
≥ 300		82.7	89.4	92.2	94.2	94.3	95.6	96.1	96.2	96.5	96.6	96.6	96.8	96.9	97.2	98.2
≥ 200		82.7	89.4	92.2	94.3	94.4	95.7	96.2	96.3	96.7	96.8	96.8	97.0	97.2	97.4	98.4
≥ 100		82.7	89.4	92.2	94.3	94.4	95.7	96.2	96.3	96.7	96.8	96.8	97.0	97.3	97.8	99.1
0		82.7	89.4	92.2	94.3	94.4	95.7	96.2	96.3	96.7	96.8	96.8	97.0	97.3	97.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH) 01 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		52.5	54.6	56.0	56.0	56.0	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	58.9
≥ 20000		56.0	58.2	59.6	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3	61.0	61.0	61.0	63.1
≥ 18000		56.0	58.2	59.6	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3	61.0	61.0	61.0	63.1
≥ 16000		56.0	58.2	59.6	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3	61.0	61.0	61.0	63.1
≥ 14000		56.7	58.9	60.3	60.3	60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.7	61.7	61.7	63.8
≥ 12000		58.2	60.3	61.7	61.7	61.7	61.7	62.4	62.4	62.4	62.4	62.4	63.1	63.1	63.1	65.3
≥ 10000		58.9	61.0	62.4	62.4	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5	64.5	66.7
≥ 9000		58.9	61.0	62.4	62.4	62.4	62.4	63.1	63.1	63.8	63.8	63.8	64.5	64.5	64.5	66.7
≥ 8000		62.4	64.5	66.0	66.0	66.0	66.0	66.7	66.7	67.4	67.4	67.4	68.1	68.1	68.1	70.2
≥ 7000		63.8	66.0	68.1	68.1	68.1	68.1	68.8	68.8	69.5	69.5	69.5	70.2	70.2	70.2	72.3
≥ 6000		65.3	67.4	69.5	69.5	69.5	69.5	70.2	70.2	70.9	70.9	70.9	71.6	71.6	71.6	73.8
≥ 5000		66.0	68.1	70.2	70.2	70.2	70.2	70.9	70.9	71.6	71.6	71.6	72.3	72.3	72.3	74.5
≥ 4500		66.7	68.8	70.9	70.9	70.9	70.9	71.6	71.6	72.3	72.3	72.3	73.1	73.1	73.1	75.2
≥ 4000		68.8	70.9	73.1	73.1	73.1	73.1	73.8	73.8	74.5	74.5	74.5	75.2	75.2	75.2	77.3
≥ 3500		71.6	73.8	75.9	75.9	75.9	75.9	76.6	76.6	77.3	77.3	77.3	78.0	78.0	78.0	80.1
≥ 3000		75.9	78.0	80.1	80.1	80.1	80.1	80.9	80.9	81.6	81.6	81.6	82.3	82.3	82.3	84.4
≥ 2500		80.9	83.0	85.1	85.1	85.1	85.1	85.8	85.8	86.5	86.5	86.5	87.2	87.2	87.2	89.4
≥ 2000		85.1	87.2	89.4	89.4	89.4	89.4	90.1	90.1	90.8	90.8	90.8	91.5	91.5	91.5	93.6
≥ 1800		85.8	87.9	90.1	90.8	90.8	90.8	91.5	91.5	92.2	92.2	92.2	92.9	92.9	92.9	95.0
≥ 1500		85.8	87.9	90.1	90.8	90.8	90.8	91.5	91.5	92.2	92.2	92.2	92.9	92.9	92.9	95.0
≥ 1200		87.2	89.4	92.2	92.9	92.9	92.9	93.6	93.6	94.3	94.3	94.3	95.0	95.0	95.0	97.2
≥ 1000		87.9	90.1	92.9	93.6	93.6	93.6	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	97.9
≥ 900		87.9	90.1	92.9	93.6	93.6	93.6	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	97.9
≥ 800		88.7	90.8	93.6	94.3	94.3	94.3	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	98.6
≥ 700		88.7	90.8	93.6	94.3	94.3	94.3	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	98.6
≥ 600		88.7	90.8	94.3	95.0	95.0	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	99.3
≥ 500		88.7	90.8	94.3	95.0	95.0	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	99.3
≥ 400		88.7	90.8	94.3	95.0	95.0	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	99.3
≥ 300		88.7	90.8	94.3	95.0	95.0	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	99.3
≥ 200		88.7	90.8	94.3	95.0	95.0	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	99.3
≥ 100		88.7	90.8	94.3	95.0	95.0	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	100.0
≥ 0		88.7	90.8	94.3	95.0	95.0	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH) 04 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		47.5	49.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	53.2	53.2	53.2	53.2
≥ 20000		51.8	54.6	57.5	57.5	57.5	57.5	57.5	57.5	58.2	58.2	58.2	58.9	58.9	58.9	58.9
≥ 18000		52.5	55.3	58.2	58.2	58.2	58.2	58.2	58.2	58.9	58.9	58.9	59.6	59.6	59.6	59.6
≥ 16000		52.5	55.3	58.2	58.2	58.2	58.2	58.2	58.2	58.9	58.9	58.9	59.6	59.6	59.6	59.6
≥ 14000		52.5	55.3	58.2	58.2	58.2	58.2	58.2	58.2	58.9	58.9	58.9	59.6	59.6	59.6	59.6
≥ 12000		52.5	55.3	58.2	58.2	58.2	58.2	58.2	58.2	58.9	58.9	58.9	59.6	59.6	59.6	59.6
≥ 10000		55.3	58.2	61.0	61.0	61.0	61.0	61.0	61.0	61.7	61.7	61.7	62.4	62.4	62.4	62.4
≥ 9000		55.3	58.2	61.0	61.0	61.0	61.0	61.0	61.0	61.7	61.7	61.7	62.4	62.4	62.4	62.4
≥ 8000		58.9	61.7	64.5	64.5	64.5	64.5	64.5	64.5	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 7000		61.0	63.8	67.4	67.4	67.4	67.4	67.4	67.4	68.1	68.1	68.1	68.8	68.8	68.8	68.8
≥ 6000		61.0	63.8	67.4	67.4	67.4	67.4	67.4	67.4	68.1	68.1	68.1	68.8	68.8	68.8	68.8
≥ 5000		63.8	66.7	70.2	70.2	70.2	70.2	70.2	70.2	70.9	70.9	70.9	71.6	71.6	71.6	71.6
≥ 4500		64.5	67.4	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	71.6	72.3	72.3	72.3	72.3
≥ 4000		68.1	71.6	75.2	75.2	75.2	75.2	75.2	75.2	75.9	75.9	75.9	76.6	76.6	76.6	76.6
≥ 3500		69.5	73.1	76.6	76.6	76.6	76.6	76.6	76.6	77.3	77.3	77.3	78.0	78.0	78.0	78.0
≥ 3000		70.2	73.8	77.3	77.3	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.7	78.7	78.7	78.7
≥ 2500		76.6	80.1	83.7	83.7	83.7	83.7	83.7	83.7	84.4	84.4	84.4	85.1	85.1	85.1	85.1
≥ 2000		79.4	84.4	87.9	87.9	87.9	87.9	87.9	87.9	88.7	88.7	88.7	89.4	89.4	89.4	89.4
≥ 1800		80.9	85.8	89.4	89.4	89.4	89.4	89.4	89.4	90.1	90.1	90.1	90.8	90.8	90.8	90.8
≥ 1500		82.3	87.2	90.8	90.8	90.8	90.8	90.8	90.8	91.5	91.5	91.5	92.2	92.2	92.2	92.2
≥ 1200		83.7	88.7	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	94.3	94.3	94.3	94.3
≥ 1000		83.7	88.7	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	94.3	94.3	94.3	94.3
≥ 900		84.4	89.4	93.6	93.6	93.6	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	95.7
≥ 800		84.4	90.1	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	96.5
≥ 700		84.4	90.1	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	96.5
≥ 600		84.4	90.1	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	96.5
≥ 500		84.4	90.1	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	96.5
≥ 400		84.4	90.1	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	96.5
≥ 300		84.4	90.1	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	96.5
≥ 200		84.4	90.1	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	95.7	96.5	96.5	96.5	96.5
≥ 100		84.4	90.1	94.3	94.3	94.3	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	97.2
0		84.4	90.1	94.3	94.3	94.3	95.0	95.7	95.7	96.5	96.5	96.5	97.2	97.2	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

[illegible] DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

[illegible] SPAIN — STATION NAME

73-77 — YEARS

FEB — MONTH

07 — HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		47.5	50.4	50.4	50.4	50.4	51.1	51.8	51.8	51.8	51.8	51.8	51.8	52.5	52.5	53.2
≥ 20000		51.8	55.3	55.3	55.3	55.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	57.5	57.5	58.2
≥ 18000		51.8	55.3	55.3	55.3	55.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	57.5	57.5	58.2
≥ 14000		51.8	55.3	55.3	55.3	55.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	57.5	57.5	58.2
≥ 14000		51.8	55.3	55.3	55.3	55.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	57.5	57.5	58.2
≥ 12000		51.8	55.3	55.3	55.3	55.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	57.5	57.5	58.2
≥ 10000		53.9	58.2	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6	60.3	60.3	61.0
≥ 9000		53.9	58.2	58.2	58.2	58.2	58.9	59.6	59.6	59.6	59.6	59.6	59.6	60.3	60.3	61.0
≥ 8000		59.6	63.8	63.8	63.8	63.8	64.5	65.3	65.3	65.3	65.3	65.3	65.3	66.0	66.0	66.7
≥ 7000		62.4	66.7	66.7	66.7	66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.8	68.8	69.5
≥ 6000		62.4	66.7	66.7	66.7	66.7	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.8	68.8	69.5
≥ 5000		64.5	68.8	69.5	69.5	69.5	70.2	70.9	70.9	70.9	70.9	70.9	70.9	71.6	71.6	72.3
≥ 4500		66.0	70.2	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	73.1	73.1	73.8
≥ 4000		66.7	70.9	71.6	71.6	71.6	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.8	73.8	74.5
≥ 3500		68.8	73.1	73.8	73.8	73.8	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.9	75.9	76.6
≥ 3000		72.3	76.6	77.3	77.3	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4	80.1
≥ 2500		75.9	80.1	80.9	80.9	80.9	81.6	82.3	82.3	82.3	82.3	82.3	82.3	83.0	83.0	83.7
≥ 2000		78.0	82.3	83.0	83.7	83.7	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.8	85.8	86.5
≥ 1800		80.9	85.1	85.8	86.5	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9	88.7	88.7	89.4
≥ 1500		81.6	86.5	87.2	87.9	87.9	88.7	89.4	89.4	89.4	89.4	89.4	89.4	90.1	90.1	90.8
≥ 1200		81.6	86.5	87.2	87.9	87.9	88.7	89.4	89.4	89.4	89.4	89.4	89.4	90.1	90.1	90.8
≥ 1000		81.6	87.2	87.9	88.7	88.7	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.8	90.8	91.5
≥ 900		81.6	87.9	88.7	89.4	89.4	90.1	90.8	90.8	90.8	90.8	90.8	90.8	91.5	91.5	92.2
≥ 800		81.6	88.7	89.4	90.1	90.1	90.8	91.5	91.5	91.5	91.5	91.5	91.5	92.2	92.2	92.9
≥ 700		81.6	88.7	89.4	90.1	90.1	90.8	91.5	91.5	91.5	91.5	91.5	91.5	92.2	92.2	92.9
≥ 600		81.6	88.7	90.1	90.8	90.8	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.9	92.9	93.6
≥ 500		81.6	89.4	91.5	92.2	92.2	93.6	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7
≥ 400		81.6	89.4	91.5	92.2	92.2	93.6	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7
≥ 300		81.6	89.4	91.5	92.2	92.2	93.6	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7
≥ 200		81.6	89.4	91.5	92.2	92.2	93.6	94.3	94.3	94.3	94.3	94.3	94.3	95.0	95.0	95.7
≥ 100		81.6	89.4	91.5	92.2	92.2	93.6	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	97.2
≥ 0		81.6	89.4	91.5	92.2	92.2	93.6	94.3	94.3	94.3	95.0	95.0	95.0	95.7	95.7	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH) 10 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		46.1	49.7	49.7	50.4	50.4	51.1	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	52.5
≥ 20000		48.9	53.2	53.2	53.9	53.9	54.6	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	56.7
≥ 18000		48.9	53.2	53.2	53.9	53.9	54.6	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	56.7
≥ 16000		48.9	53.2	53.2	53.9	53.9	54.6	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	56.7
≥ 14000		48.9	53.9	53.9	54.6	54.6	55.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	57.5
≥ 12000		49.7	54.6	55.3	56.0	56.0	56.7	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	58.9
≥ 10000		51.1	56.0	56.7	57.5	57.5	58.2	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	60.3
≥ 9000		52.5	57.5	58.2	58.9	58.9	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.7
≥ 8000		56.0	61.0	61.7	62.4	62.4	63.1	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	66.0
≥ 7000		58.2	63.8	64.5	65.3	65.3	66.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	68.8
≥ 6000		58.2	63.8	64.5	65.3	65.3	66.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	68.8
≥ 5000		61.0	66.7	67.4	68.1	68.1	68.8	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	71.6
≥ 4500		63.1	68.8	69.5	70.2	70.2	70.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.8
≥ 4000		66.0	71.6	72.3	73.1	73.1	73.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	76.6
≥ 3500		68.8	74.5	75.2	75.9	75.9	76.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	79.4
≥ 3000		69.5	75.2	75.9	76.6	76.6	77.3	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	80.1
≥ 2500		75.9	81.6	82.3	83.0	83.0	83.7	85.1	85.1	85.8	85.8	85.8	85.8	85.8	85.8	87.2
≥ 2000		77.3	83.0	84.4	85.1	85.1	85.8	87.2	87.2	87.9	87.9	87.9	87.9	87.9	87.9	89.4
≥ 1800		78.0	83.7	85.1	85.8	85.8	86.5	87.9	87.9	88.7	88.7	88.7	88.7	88.7	88.7	90.1
≥ 1500		80.1	85.8	87.9	88.7	88.7	89.4	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	92.9
≥ 1200		80.1	85.8	87.9	88.7	88.7	89.4	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	92.9
≥ 1000		80.9	86.5	88.7	89.4	89.4	90.1	91.5	91.5	92.2	92.2	92.2	92.2	92.2	92.2	93.6
≥ 900		80.9	86.5	88.7	89.4	89.4	90.1	91.5	91.5	92.2	92.2	92.2	92.2	92.2	92.2	93.6
≥ 800		80.9	86.5	88.7	89.4	89.4	90.1	91.5	91.5	92.2	92.2	92.2	92.2	92.2	92.2	93.6
≥ 700		80.9	86.5	88.7	89.4	89.4	90.1	91.5	91.5	92.9	92.9	92.9	92.9	92.9	92.9	94.3
≥ 600		81.6	87.2	89.4	90.1	90.1	91.5	92.9	92.9	94.3	94.3	94.3	94.3	94.3	94.3	95.7
≥ 500		81.6	87.2	90.1	90.8	90.8	92.2	93.6	93.6	95.0	95.0	95.0	95.0	95.0	95.0	96.5
≥ 400		81.6	87.2	90.1	90.8	91.5	92.9	94.3	94.3	95.7	95.7	95.7	95.7	95.7	95.7	97.2
≥ 300		81.6	87.2	90.1	90.8	91.5	92.9	94.3	94.3	95.7	95.7	95.7	95.7	95.7	95.7	97.2
≥ 200		81.6	87.2	90.1	90.8	91.5	93.6	95.7	95.7	97.2	97.2	97.2	97.2	97.2	97.2	98.6
≥ 100		81.6	87.2	90.1	90.8	91.5	93.6	95.7	95.7	97.2	97.2	97.2	97.2	97.2	97.2	98.6
≥ 0		81.6	87.2	90.1	90.8	91.5	93.6	95.7	95.7	97.2	97.2	97.2	97.2	97.2	97.2	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

13 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		55.3	55.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 20000		60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 18000		60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 16000		60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 14000		60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 12000		61.7	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 10000		62.4	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 9000		64.5	64.5	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 8000		67.4	67.4	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 7000		71.6	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 6000		71.6	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 5000		72.3	73.8	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 4500		73.1	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 4000		73.8	75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3500		74.5	75.9	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 3000		78.0	79.4	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 2500		82.3	83.7	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2000		88.7	90.1	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1800		88.7	90.1	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1500		90.8	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1200		90.8	92.2	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000		91.5	92.9	93.6	94.3	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 900		91.5	92.9	93.6	94.3	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 800		91.5	92.9	93.6	94.3	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 700		91.5	92.9	93.6	94.3	94.3	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 600		91.5	92.9	93.6	94.3	94.3	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 500		91.5	92.9	93.6	94.3	95.0	96.5	97.2	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 400		91.5	92.9	93.6	94.3	95.0	96.5	97.9	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 300		91.5	92.9	93.6	94.3	95.0	96.5	97.9	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 200		91.5	92.9	93.6	94.3	95.0	96.5	97.9	98.6	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 100		91.5	92.9	93.6	94.3	95.0	96.5	97.9	98.6	99.3	99.3	99.3	100.0	100.0	100.0	100.0
0		91.5	92.9	93.6	94.3	95.0	96.5	97.9	98.6	99.3	99.3	99.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH) 16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		51.1	51.1	51.1	51.1	51.1	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
≥ 20000		58.9	58.9	58.9	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 18000		58.9	58.9	58.9	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 16000		58.9	58.9	58.9	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 14000		58.9	58.9	58.9	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 12000		60.3	60.3	60.3	60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 10000		62.4	62.4	62.4	62.4	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 9000		63.8	63.8	63.8	63.8	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 8000		70.2	70.2	70.2	70.2	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 7000		72.3	73.1	73.1	73.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 6000		72.3	73.1	73.1	73.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 5000		72.3	73.1	73.1	73.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 4500		72.3	73.1	73.1	73.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 4000		75.2	76.6	76.6	76.6	76.6	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3500		77.3	78.7	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3000		81.6	83.0	83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 2500		84.4	85.8	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2000		88.7	90.8	90.8	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1800		88.7	90.8	90.8	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1500		89.4	91.5	92.2	92.9	92.9	93.6	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1200		89.4	91.5	92.2	92.9	92.9	93.6	93.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 1000		90.1	92.9	93.6	94.3	94.3	95.0	95.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900		90.1	92.9	93.6	94.3	94.3	95.0	95.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 800		90.1	93.6	94.3	95.7	95.7	96.5	96.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 700		90.1	93.6	94.3	95.7	95.7	96.5	96.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 600		90.1	93.6	94.3	95.7	95.7	96.5	96.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 500		90.1	93.6	94.3	95.7	95.7	97.2	97.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 400		90.1	93.6	94.3	95.7	95.7	97.2	97.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 300		90.1	93.6	94.3	95.7	95.7	97.9	97.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		90.1	93.6	94.3	95.7	95.7	97.9	97.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		90.1	93.6	94.3	95.7	95.7	97.9	97.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		90.1	93.6	94.3	95.7	95.7	97.9	97.9	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH)

19 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		53.2	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 20000		59.6	60.3	60.3	60.3	60.3	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 18000		60.3	61.0	61.0	61.0	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 16000		60.3	61.0	61.0	61.0	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 14000		61.0	61.7	61.7	61.7	61.7	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 12000		61.7	62.4	62.4	62.4	62.4	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 10000		63.1	63.8	63.8	63.8	63.8	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 9000		64.5	65.3	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000		68.1	68.8	68.8	68.8	68.8	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 7000		68.8	69.5	69.5	69.5	69.5	69.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 6000		69.5	70.2	70.2	70.2	70.2	70.2	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 5000		70.9	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4500		71.6	72.3	72.3	72.3	72.3	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 4000		74.5	75.2	75.2	75.2	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 3500		76.6	77.3	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3000		80.9	81.6	81.6	81.6	81.6	81.6	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 2500		82.3	83.0	83.0	83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
≥ 2000		88.7	89.4	90.1	90.1	90.1	90.1	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1800		89.4	90.1	90.8	90.8	90.8	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 1500		90.8	92.2	92.9	93.6	93.6	93.6	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 1200		90.8	92.9	93.6	94.3	94.3	94.3	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1000		91.5	93.6	94.3	95.0	95.0	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 900		91.5	93.6	94.3	95.7	95.7	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 800		91.5	93.6	94.3	95.7	95.7	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 700		91.5	93.6	94.3	95.7	95.7	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 600		91.5	93.6	94.3	95.7	95.7	95.7	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 500		92.2	94.3	95.0	96.5	96.5	96.5	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 400		92.2	94.3	95.0	96.5	96.5	96.5	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
≥ 300		92.2	94.3	95.0	97.2	97.2	97.2	97.9	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		92.2	94.3	95.0	97.2	97.2	97.2	97.9	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		92.2	94.3	95.0	97.2	97.2	97.2	97.9	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0		92.2	94.3	95.0	97.2	97.2	97.2	97.9	98.6	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH) 22 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		66.7	66.7	68.1	68.1	68.1	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	70.2
≥ 20000		69.5	69.5	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1
≥ 18000		69.5	69.5	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1
≥ 16000		69.5	69.5	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1
≥ 14000		69.5	69.5	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1
≥ 12000		69.5	69.5	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1
≥ 10000		69.5	69.5	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1
≥ 9000		69.5	69.5	70.9	70.9	70.9	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	73.1
≥ 8000		72.3	72.3	73.8	73.8	73.8	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.9
≥ 7000		75.2	75.9	77.3	77.3	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4
≥ 6000		75.9	76.6	78.0	78.0	78.0	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	80.1
≥ 5000		76.6	77.3	79.4	79.4	79.4	80.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.6
≥ 4500		77.3	78.0	80.1	80.1	80.1	80.9	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	82.3
≥ 4000		80.9	81.6	83.7	83.7	83.7	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.8
≥ 3500		83.7	84.4	86.5	86.5	86.5	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	88.7
≥ 3000		85.1	86.5	88.7	88.7	88.7	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.8
≥ 2500		85.8	87.2	89.4	89.4	89.4	90.1	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	91.5
≥ 2000		89.4	91.5	93.6	93.6	93.6	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.7
≥ 1800		89.4	91.5	93.6	93.6	93.6	94.3	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.7
≥ 1500		90.1	92.9	95.0	95.0	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	97.2
≥ 1200		90.1	92.9	95.0	95.0	95.0	95.7	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	97.2
≥ 1000		91.5	94.3	96.5	96.5	96.5	97.2	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	98.6
≥ 900		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 800		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 700		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 600		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 500		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 400		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 300		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 200		91.5	94.3	96.5	97.2	97.2	97.9	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	99.3
≥ 100		91.5	94.3	96.5	97.2	97.2	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 0		91.5	94.3	96.5	97.2	97.2	98.6	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 141

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) FEB (MONTH) ALL (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		52.5	53.9	54.7	54.8	54.8	55.1	55.5	55.5	55.5	55.5	55.5	55.6	55.7	55.7	56.2
≥ 20000		57.1	58.8	59.6	59.7	59.7	60.0	60.5	60.5	60.6	60.6	60.6	60.7	60.8	60.8	61.4
≥ 18000		57.3	59.0	59.8	59.8	59.8	60.2	60.6	60.6	60.7	60.7	60.7	60.9	61.0	61.0	61.6
≥ 16000		57.3	59.0	59.8	59.8	59.8	60.2	60.6	60.6	60.7	60.7	60.7	60.9	61.0	61.0	61.6
≥ 14000		57.5	59.2	60.0	60.1	60.1	60.5	60.9	60.9	61.0	61.0	61.0	61.2	61.3	61.3	61.9
≥ 12000		58.2	59.9	60.8	60.9	60.9	61.3	61.7	61.7	61.8	61.8	61.8	62.0	62.1	62.1	62.7
≥ 10000		59.6	61.4	62.3	62.4	62.4	62.8	63.2	63.2	63.4	63.4	63.4	63.6	63.7	63.7	64.3
≥ 9000		60.4	62.2	63.1	63.2	63.2	63.6	64.0	64.0	64.2	64.2	64.2	64.4	64.5	64.5	65.1
≥ 8000		64.4	66.2	67.1	67.2	67.2	67.6	68.1	68.1	68.3	68.3	68.3	68.4	68.5	68.5	69.2
≥ 7000		66.7	69.0	70.0	70.1	70.1	70.5	71.0	71.0	71.2	71.2	71.2	71.4	71.5	71.5	72.1
≥ 6000		67.0	69.3	70.4	70.5	70.5	70.8	71.4	71.4	71.5	71.5	71.5	71.7	71.8	71.8	72.4
≥ 5000		68.4	70.7	72.0	72.1	72.1	72.4	73.0	73.0	73.1	73.1	73.1	73.3	73.4	73.4	74.0
≥ 4500		69.3	71.6	72.9	73.0	73.0	73.3	73.9	73.9	74.0	74.0	74.0	74.2	74.3	74.3	74.9
≥ 4000		71.7	74.2	75.4	75.5	75.5	75.9	76.4	76.4	76.6	76.6	76.6	76.8	76.9	76.9	77.5
≥ 3500		73.9	76.3	77.6	77.7	77.7	78.0	78.6	78.6	78.7	78.7	78.7	78.9	79.0	79.0	79.6
≥ 3000		76.7	79.3	80.5	80.6	80.6	80.9	81.5	81.5	81.7	81.7	81.7	81.8	81.9	81.9	82.5
≥ 2500		80.5	83.1	84.3	84.4	84.4	84.8	85.3	85.3	85.6	85.6	85.6	85.7	85.8	85.8	86.4
≥ 2000		84.4	87.3	88.7	88.9	88.9	89.3	89.8	89.8	90.1	90.1	90.1	90.3	90.3	90.3	91.0
≥ 1800		85.2	88.1	89.5	89.8	89.8	90.2	90.7	90.7	91.0	91.0	91.0	91.1	91.2	91.2	91.8
≥ 1500		86.4	89.5	91.1	91.6	91.6	92.0	92.6	92.7	93.0	93.0	93.0	93.2	93.3	93.3	93.9
≥ 1200		86.7	90.0	91.8	92.2	92.2	92.6	93.2	93.4	93.7	93.7	93.7	93.9	94.0	94.0	94.6
≥ 1000		87.3	90.8	92.6	93.1	93.1	93.5	94.1	94.3	94.6	94.6	94.6	94.8	94.9	94.9	95.5
≥ 900		87.4	91.0	92.7	93.4	93.4	94.0	94.5	94.8	95.0	95.0	95.0	95.2	95.3	95.3	95.9
≥ 800		87.5	91.3	93.1	93.9	93.9	94.4	95.0	95.2	95.5	95.5	95.5	95.7	95.7	95.7	96.4
≥ 700		87.5	91.3	93.1	93.9	93.9	94.4	95.0	95.3	95.7	95.7	95.7	95.8	95.9	95.9	96.5
≥ 600		87.6	91.4	93.4	94.2	94.2	94.8	95.4	95.7	96.0	96.0	96.0	96.2	96.3	96.3	96.9
≥ 500		87.7	91.6	93.7	94.5	94.6	95.5	96.1	96.4	96.8	96.8	96.8	97.0	97.1	97.1	97.7
≥ 400		87.7	91.6	93.7	94.5	94.7	95.6	96.3	96.5	97.0	97.0	97.0	97.2	97.3	97.3	97.9
≥ 300		87.7	91.6	93.7	94.6	94.8	95.7	96.5	96.7	97.3	97.3	97.3	97.4	97.5	97.5	98.1
≥ 200		87.7	91.6	93.7	94.6	94.8	95.8	96.6	97.0	97.6	97.6	97.6	97.9	98.0	98.0	98.6
≥ 100		87.7	91.6	93.7	94.6	94.8	95.9	96.8	97.2	97.8	97.9	97.9	98.1	98.2	98.2	99.0
0		87.7	91.6	93.7	94.6	94.8	95.9	96.8	97.2	97.8	97.9	97.9	98.1	98.2	98.2	100.0

TOTAL NUMBER OF OBSERVATIONS 1128

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY AN 7

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH) 01 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		61.9	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 20000		66.5	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 18000		66.5	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 16000		66.5	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 14000		66.5	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 12000		67.1	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 10000		68.4	73.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 9000		69.0	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 8000		72.3	77.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 7000		72.9	78.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000		74.2	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 5000		74.8	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500		76.1	81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 4000		80.7	85.8	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3500		81.3	86.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3000		84.5	89.7	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2500		86.5	92.3	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2000		88.4	94.2	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1800		89.0	94.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500		89.7	95.5	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		89.7	95.5	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000		90.3	96.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		90.3	96.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		90.3	96.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		90.3	96.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		90.3	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		90.3	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		90.3	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		90.3	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		90.3	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		90.3	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		90.3	96.8	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH) 04 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		61.9	64.5	66.5	66.5	66.5	66.5	67.1	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 20000		65.2	68.4	70.3	70.3	70.3	70.3	71.0	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 18000		65.2	68.4	70.3	70.3	70.3	70.3	71.0	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 16000		65.2	68.4	70.3	70.3	70.3	70.3	71.0	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 14000		65.2	68.4	70.3	70.3	70.3	70.3	71.0	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 12000		65.2	68.4	70.3	70.3	70.3	70.3	71.0	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 10000		67.1	70.3	72.3	72.3	72.3	72.3	72.9	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 9000		67.1	70.3	72.3	72.3	72.3	72.3	72.9	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000		69.7	72.9	74.8	74.8	74.8	74.8	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 7000		70.3	73.6	75.5	75.5	75.5	75.5	76.1	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000		71.0	74.2	76.1	76.1	76.1	76.1	76.8	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 5000		72.9	76.1	78.1	78.1	78.1	78.1	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500		74.8	78.1	80.0	80.0	80.0	80.0	80.7	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4000		78.1	81.3	83.2	83.2	83.2	83.2	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3500		79.4	82.6	84.5	84.5	84.5	84.5	85.2	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000		83.2	86.5	88.4	88.4	88.4	88.4	89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500		83.9	87.1	89.7	89.7	89.7	89.7	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000		84.5	87.7	90.3	90.3	90.3	90.3	91.0	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800		85.2	89.0	91.6	91.6	91.6	91.6	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500		86.5	90.3	92.9	92.9	92.9	92.9	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200		87.1	91.6	94.8	94.8	94.8	94.8	95.5	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		87.1	91.6	94.8	94.8	94.8	94.8	95.5	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900		88.4	92.9	96.8	96.8	96.8	96.8	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		88.4	92.9	96.8	96.8	96.8	96.8	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		88.4	93.6	97.4	97.4	97.4	97.4	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		88.4	93.6	97.4	97.4	97.4	97.4	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		88.4	93.6	97.4	97.4	97.4	97.4	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		88.4	93.6	97.4	97.4	97.4	97.4	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		88.4	93.6	97.4	98.1	98.1	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		88.4	93.6	97.4	98.1	98.1	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		88.4	93.6	97.4	98.1	98.1	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		88.4	93.6	97.4	98.1	98.1	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH) 07 (HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		60.0	64.5	65.8	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 20000		65.2	69.7	71.6	73.6	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 18000		65.2	69.7	71.6	73.6	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 16000		65.2	69.7	71.6	73.6	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 14000		65.2	69.7	71.6	73.6	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 12000		65.8	70.3	72.3	74.2	74.2	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000		69.0	73.6	75.5	77.4	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 9000		69.0	73.6	75.5	77.4	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000		70.3	74.8	76.8	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 7000		71.0	76.1	78.1	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 6000		72.3	77.4	79.4	81.3	81.3	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 5000		72.3	77.4	79.4	81.3	81.3	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500		74.2	79.4	81.3	83.2	83.2	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4000		74.8	80.0	81.9	83.9	83.9	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3500		75.5	80.7	82.6	84.5	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3000		80.0	85.2	87.1	89.0	89.0	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2500		82.6	87.7	89.7	92.3	92.3	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2000		82.6	87.7	89.7	92.3	92.3	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1800		82.6	87.7	89.7	92.3	92.3	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500		82.6	88.4	90.3	93.6	94.2	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200		83.9	90.3	92.3	95.5	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		84.5	91.0	92.9	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 900		84.5	91.0	92.9	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		84.5	91.0	92.9	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		84.5	91.0	92.9	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600		84.5	91.0	92.9	96.8	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500		84.5	91.0	93.6	97.4	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		84.5	91.0	93.6	97.4	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		84.5	91.0	93.6	97.4	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		84.5	91.0	93.6	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		84.5	91.0	93.6	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
0		84.5	91.0	93.6	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | MAR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 (HOURS (L.S.T.))

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CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		51.0	54.8	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	57.4	57.4
≥ 20000		59.4	63.9	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	66.5	66.5
≥ 18000		60.0	64.5	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 16000		60.0	64.5	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 14000		60.7	65.2	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.7	67.7
≥ 12000		61.3	66.5	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	69.0	69.0
≥ 10000		63.9	69.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	72.3	72.3
≥ 9000		63.9	69.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	72.3	72.3
≥ 8000		67.1	72.3	74.2	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	76.1	76.1
≥ 7000		68.4	73.6	76.1	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	78.1	78.1
≥ 6000		68.4	73.6	76.8	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.7	78.7
≥ 5000		69.0	74.2	77.4	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4
≥ 4500		69.0	74.2	77.4	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4
≥ 4000		70.3	76.1	79.4	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3
≥ 3500		72.3	78.1	81.3	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	83.2	83.2
≥ 3000		76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4	88.4
≥ 2500		78.7	84.5	87.7	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3	90.3
≥ 2000		80.7	86.5	89.7	91.0	91.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.9	92.9
≥ 1800		80.7	86.5	89.7	91.0	91.0	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.9	92.9
≥ 1500		84.5	90.3	93.6	94.8	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.8	96.8
≥ 1200		85.2	91.0	94.2	95.5	95.5	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4	97.4
≥ 1000		85.8	91.6	94.8	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	98.1	98.1
≥ 900		86.5	92.3	95.5	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 800		86.5	92.3	95.5	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 700		86.5	92.3	95.5	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 600		86.5	92.3	95.5	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 500		86.5	92.3	95.5	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 400		86.5	92.3	95.5	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 300		86.5	92.3	95.5	96.8	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 200		86.5	92.3	95.5	96.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	100.0
≥ 100		86.5	92.3	95.5	96.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	100.0
0		86.5	92.3	95.5	96.8	96.8	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH) 13 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		59.4	61.9	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 20000		71.0	74.2	74.8	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 18000		71.6	74.8	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 16000		72.3	75.5	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 14000		72.3	75.5	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 12000		73.6	76.8	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 10000		76.8	80.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 9000		78.1	81.3	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 8000		79.4	82.6	83.2	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 7000		81.3	84.5	85.2	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 6000		81.9	85.2	85.8	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 5000		82.6	85.8	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4500		83.2	86.5	87.1	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4000		83.9	87.7	88.4	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3500		83.9	87.7	88.4	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000		85.2	89.0	89.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2500		86.5	90.3	91.0	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2000		89.0	93.6	94.2	95.5	95.5	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1800		90.3	94.8	95.5	96.8	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500		91.0	95.5	96.1	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		91.0	95.5	96.1	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		91.0	95.5	96.1	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		91.0	95.5	96.1	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		91.0	95.5	96.1	97.4	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		91.0	95.5	96.1	97.4	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		91.0	95.5	96.1	97.4	97.4	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		91.6	96.1	96.8	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.6	96.1	96.8	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.6	96.1	96.8	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.6	96.1	96.8	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.6	96.1	96.8	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		91.6	96.1	96.8	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		56.1	58.1	58.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000		67.7	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 18000		69.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000		69.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000		70.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 12000		70.3	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 10000		72.9	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 9000		73.6	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 8000		75.5	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000		77.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 6000		77.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 5000		77.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4500		77.4	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4000		78.1	80.7	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3500		80.7	83.2	83.9	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3000		81.9	84.5	85.2	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2500		83.2	86.5	87.7	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 2000		87.7	91.6	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1800		88.4	92.3	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1500		90.3	95.5	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		90.3	95.5	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000		91.0	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		91.0	96.8	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		91.0	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | MAR (MONTH) | 19 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		56.1	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000		65.2	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 18000		65.2	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 16000		65.2	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 14000		65.2	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 12000		65.2	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 10000		67.7	71.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 9000		68.4	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 8000		71.6	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000		72.3	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 6000		72.3	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 5000		72.9	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500		73.6	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000		76.1	81.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3500		76.8	82.6	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3000		80.7	87.1	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 2500		81.9	89.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000		83.2	90.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1800		83.2	90.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1500		85.8	92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200		86.5	93.6	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		88.4	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		88.4	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		88.4	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		88.4	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		89.0	96.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		89.0	96.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		89.0	96.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		89.0	96.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		89.0	96.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		89.0	96.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		89.0	96.1	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

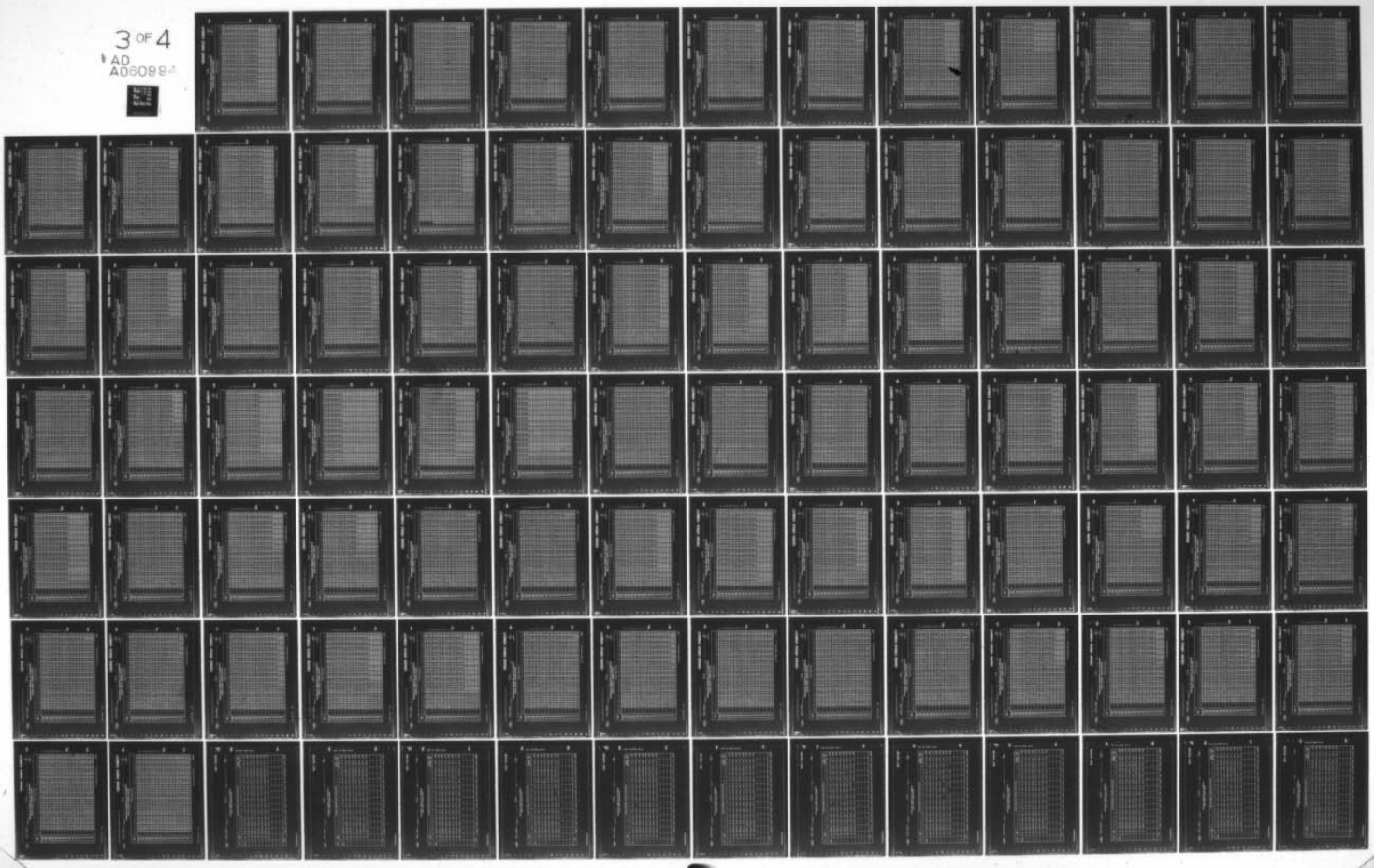
DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

AD-A060 994 NAVAL WEATHER SERVICE DETACHMENT \SHEVILLE N C F/G 4/2
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) ROTA, SP--ETC(U)
JUL 78

UNCLASSIFIED NL

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH)

22 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		64.5	69.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 20000		69.0	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 18000		69.7	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 16000		69.7	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 14000		69.7	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 12000		69.7	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 10000		71.6	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 9000		71.6	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 8000		74.2	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 7000		75.5	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 6000		75.5	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 5000		76.1	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4500		76.1	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4000		80.0	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3500		81.9	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3000		85.2	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2500		87.7	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2000		89.7	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800		89.7	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500		89.7	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		90.3	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		91.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAR (MONTH) ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		58.9	62.3	63.5	63.8	63.9	64.0	64.0	64.0	64.3	64.3	64.3	64.3	64.3	64.4	64.4
≥ 20000		66.1	70.1	71.3	71.6	71.7	71.8	71.9	71.9	72.1	72.1	72.1	72.1	72.1	72.2	72.2
≥ 18000		66.5	70.5	71.7	72.0	72.1	72.2	72.3	72.3	72.5	72.5	72.5	72.5	72.5	72.6	72.6
≥ 16000		66.6	70.6	71.8	72.1	72.2	72.3	72.3	72.3	72.6	72.6	72.6	72.6	72.6	72.7	72.7
≥ 14000		66.9	70.8	72.0	72.3	72.4	72.5	72.6	72.6	72.8	72.8	72.8	72.8	72.8	72.9	72.9
≥ 12000		67.3	71.4	72.6	72.9	73.0	73.1	73.2	73.2	73.4	73.4	73.4	73.4	73.4	73.5	73.5
≥ 10000		69.7	73.8	75.2	75.5	75.6	75.7	75.7	75.7	76.0	76.0	76.0	76.0	76.0	76.1	76.1
≥ 9000		70.1	74.3	75.7	76.0	76.1	76.1	76.2	76.2	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 8000		72.5	76.7	78.1	78.5	78.6	78.7	78.8	78.8	79.0	79.0	79.0	79.0	79.0	79.1	79.1
≥ 7000		73.6	77.9	79.4	79.8	79.8	80.0	80.1	80.1	80.3	80.3	80.3	80.3	80.3	80.4	80.4
≥ 6000		74.1	78.4	79.9	80.3	80.4	80.6	80.7	80.7	80.9	80.9	80.9	80.9	80.9	81.0	81.0
≥ 5000		74.8	79.0	80.6	81.0	81.1	81.2	81.3	81.3	81.5	81.5	81.5	81.5	81.5	81.6	81.6
≥ 4500		75.6	79.8	81.4	81.9	81.9	82.1	82.2	82.2	82.4	82.4	82.4	82.4	82.4	82.5	82.5
≥ 4000		77.7	82.5	84.2	84.8	84.9	85.1	85.2	85.2	85.4	85.4	85.4	85.4	85.4	85.5	85.5
≥ 3500		79.0	83.7	85.4	86.1	86.1	86.3	86.4	86.4	86.6	86.6	86.6	86.6	86.6	86.7	86.7
≥ 3000		82.2	87.0	88.7	89.5	89.6	89.8	89.8	89.8	90.1	90.1	90.1	90.1	90.1	90.2	90.2
≥ 2500		83.9	89.0	90.9	91.8	91.9	92.0	92.1	92.1	92.3	92.3	92.3	92.3	92.3	92.4	92.4
≥ 2000		85.7	91.1	92.9	93.8	93.9	94.0	94.2	94.3	94.5	94.5	94.5	94.5	94.5	94.6	94.6
≥ 1800		86.1	91.5	93.4	94.3	94.4	94.5	94.7	94.8	95.0	95.0	95.0	95.0	95.0	95.1	95.1
≥ 1500		87.5	93.2	95.1	96.1	96.3	96.5	96.6	96.7	96.9	96.9	96.9	96.9	96.9	97.0	97.0
≥ 1200		88.0	93.9	95.8	96.9	97.0	97.2	97.3	97.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7
≥ 1000		88.6	94.6	96.6	97.7	97.9	98.1	98.2	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900		88.9	94.8	96.9	98.1	98.2	98.4	98.6	98.6	98.9	98.9	98.9	98.9	98.9	99.0	99.0
≥ 800		88.9	94.9	97.0	98.2	98.3	98.6	98.7	98.8	99.0	99.0	99.0	99.0	99.0	99.1	99.1
≥ 700		88.9	95.0	97.1	98.2	98.4	98.6	98.8	98.9	99.1	99.1	99.1	99.1	99.1	99.2	99.2
≥ 600		89.0	95.2	97.3	98.5	98.6	98.9	99.0	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		89.0	95.2	97.4	98.6	98.8	99.0	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.6	99.6
≥ 400		89.0	95.2	97.4	98.6	98.8	99.0	99.2	99.3	99.5	99.5	99.5	99.5	99.5	99.6	99.6
≥ 300		89.0	95.2	97.4	98.7	98.9	99.1	99.3	99.4	99.6	99.6	99.6	99.6	99.6	99.7	99.7
≥ 200		89.0	95.2	97.4	98.8	99.0	99.2	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.8	99.9
≥ 100		89.0	95.2	97.4	98.8	99.0	99.2	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.9	100.0
0		89.0	95.2	97.4	98.8	99.0	99.2	99.4	99.5	99.8	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | APR (MONTH) | 01 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		64.7	66.7	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.7
≥ 20000		66.7	69.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0
≥ 18000		66.7	69.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0
≥ 16000		66.7	69.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0
≥ 14000		66.7	69.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0
≥ 12000		67.3	70.0	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.7
≥ 10000		70.0	72.7	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.3
≥ 9000		70.0	72.7	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.3
≥ 8000		74.7	77.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	80.0
≥ 7000		76.7	80.7	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	83.3
≥ 6000		77.3	81.3	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	84.0
≥ 5000		78.7	83.3	84.7	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.7
≥ 4500		80.7	85.3	86.7	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.7
≥ 4000		81.3	86.0	87.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	89.3
≥ 3500		82.7	87.3	88.7	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.7
≥ 3000		84.0	88.7	90.0	90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	92.0
≥ 2500		88.0	93.3	94.7	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.7
≥ 2000		88.7	94.0	95.3	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	97.3
≥ 1800		88.7	94.0	95.3	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	97.3
≥ 1500		89.3	95.3	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
≥ 1200		89.3	95.3	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
≥ 1000		90.0	96.0	97.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3
≥ 900		90.0	96.0	97.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3
≥ 800		90.0	96.0	97.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3
≥ 700		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 600		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 500		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 400		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 300		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 200		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 100		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
0		90.7	96.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | APR (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

04 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		58.0	58.7	60.0	60.7	60.7	61.3	61.3	61.3	62.0	62.0	62.7	62.7	62.7	63.3	63.3
≥ 20000		61.3	62.7	64.0	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.7	66.7	66.7	67.3	68.0
≥ 18000		61.3	62.7	64.0	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.7	66.7	66.7	67.3	68.0
≥ 16000		61.3	62.7	64.0	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.7	66.7	66.7	67.3	68.0
≥ 14000		61.3	62.7	64.0	64.7	64.7	65.3	65.3	65.3	66.0	66.0	66.7	66.7	66.7	67.3	68.0
≥ 12000		63.3	64.7	66.0	66.7	66.7	67.3	67.3	67.3	68.0	68.0	68.7	68.7	68.7	69.3	70.0
≥ 10000		64.0	66.0	67.3	68.0	68.0	68.7	68.7	68.7	69.3	69.3	70.0	70.0	70.0	70.7	71.3
≥ 9000		64.0	66.0	67.3	68.0	68.0	68.7	68.7	68.7	69.3	69.3	70.0	70.0	70.0	70.7	71.3
≥ 8000		66.7	69.3	70.7	71.3	71.3	72.0	72.0	72.0	72.7	72.7	73.3	73.3	73.3	74.0	74.7
≥ 7000		68.0	71.3	72.7	73.3	73.3	74.0	74.0	74.0	74.7	74.7	75.3	75.3	75.3	76.0	76.7
≥ 6000		68.0	72.0	73.3	74.0	74.0	74.7	74.7	74.7	75.3	75.3	76.0	76.0	76.0	76.7	77.3
≥ 5000		69.3	73.3	74.7	75.3	75.3	76.0	76.0	76.0	76.7	76.7	77.3	77.3	77.3	78.0	78.7
≥ 4500		70.7	74.7	76.0	76.7	76.7	77.3	77.3	77.3	78.0	78.0	78.7	78.7	78.7	79.3	80.0
≥ 4000		73.3	77.3	78.7	79.3	79.3	80.0	80.0	80.0	80.7	80.7	81.3	81.3	81.3	82.0	82.7
≥ 3500		74.7	78.7	80.7	81.3	81.3	82.0	82.0	82.0	82.7	82.7	83.3	83.3	83.3	84.0	84.7
≥ 3000		78.0	82.7	84.7	85.3	85.3	86.0	86.0	86.0	86.7	86.7	87.3	87.3	87.3	88.0	88.7
≥ 2500		81.3	88.0	90.0	90.7	90.7	91.3	91.3	91.3	92.0	92.0	92.7	92.7	92.7	93.3	94.0
≥ 2000		83.3	90.7	92.7	93.3	93.3	94.0	94.0	94.0	94.7	94.7	95.3	95.3	95.3	96.0	96.7
≥ 1800		84.0	91.3	93.3	94.0	94.0	94.7	94.7	94.7	95.3	95.3	96.0	96.0	96.0	96.7	97.3
≥ 1500		84.7	92.0	94.0	94.7	94.7	95.3	95.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	98.0
≥ 1200		84.7	92.0	94.0	94.7	94.7	95.3	95.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	98.0
≥ 1000		85.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.0	98.7	99.3
≥ 900		85.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.0	98.7	99.3
≥ 800		85.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.0	98.7	99.3
≥ 700		85.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.0	98.7	99.3
≥ 600		85.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.0	98.7	99.3
≥ 500		85.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.0	98.7	99.3
≥ 400		85.3	93.3	96.0	96.7	96.7	97.3	97.3	97.3	98.0	98.0	98.7	98.7	98.7	99.3	100.0
≥ 300		85.3	93.3	96.0	96.7	96.7	97.3	97.3	97.3	98.0	98.0	98.7	98.7	98.7	99.3	100.0
≥ 200		85.3	93.3	96.0	96.7	96.7	97.3	97.3	97.3	98.0	98.0	98.7	98.7	98.7	99.3	100.0
≥ 100		85.3	93.3	96.0	96.7	96.7	97.3	97.3	97.3	98.0	98.0	98.7	98.7	98.7	99.3	100.0
≥ 0		85.3	93.3	96.0	96.7	96.7	97.3	97.3	97.3	98.0	98.0	98.7	98.7	98.7	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

07 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		41.3	44.0	46.0	49.3	49.3	50.0	50.7	50.7	51.3	52.0	52.0	52.0	52.0	52.0	52.7
≥ 20000		47.3	50.7	52.7	56.0	56.0	56.7	57.3	57.3	58.0	58.7	58.7	58.7	58.7	58.7	59.3
≥ 18000		47.3	50.7	52.7	56.0	56.0	56.7	57.3	57.3	58.0	58.7	58.7	58.7	58.7	58.7	59.3
≥ 16000		47.3	50.7	52.7	56.0	56.0	56.7	57.3	57.3	58.0	58.7	58.7	58.7	58.7	58.7	59.3
≥ 14000		48.0	51.3	53.3	56.7	56.7	57.3	58.0	58.0	58.7	59.3	59.3	59.3	59.3	59.3	60.0
≥ 12000		49.3	52.7	54.7	58.0	58.0	58.7	59.3	59.3	60.0	60.7	60.7	60.7	60.7	60.7	61.3
≥ 10000		51.3	54.7	56.7	60.0	60.0	60.7	61.3	61.3	62.0	62.7	62.7	62.7	62.7	62.7	63.3
≥ 9000		51.3	54.7	56.7	60.0	60.0	60.7	61.3	61.3	62.0	62.7	62.7	62.7	62.7	62.7	63.3
≥ 8000		54.7	59.3	61.3	65.3	65.3	66.0	66.7	66.7	67.3	68.0	68.0	68.0	68.0	68.0	68.7
≥ 7000		57.3	62.7	64.7	69.3	70.0	70.7	71.3	71.3	72.0	72.7	72.7	72.7	72.7	72.7	73.3
≥ 6000		57.3	62.7	64.7	69.3	70.0	70.7	71.3	71.3	72.0	72.7	72.7	72.7	72.7	72.7	73.3
≥ 5000		58.0	63.3	65.3	70.0	70.7	71.3	72.0	72.0	72.7	73.3	73.3	73.3	73.3	73.3	74.0
≥ 4500		60.0	65.3	67.3	72.0	72.7	73.3	74.0	74.0	74.7	75.3	75.3	75.3	75.3	75.3	76.0
≥ 4000		63.3	68.7	70.7	75.3	76.0	76.7	77.3	77.3	78.0	78.7	78.7	78.7	78.7	78.7	79.3
≥ 3500		64.7	70.0	72.7	77.3	78.0	78.7	79.3	79.3	80.0	80.7	80.7	80.7	80.7	80.7	81.3
≥ 3000		67.3	73.3	76.0	80.7	81.3	82.0	82.7	82.7	83.3	84.0	84.0	84.0	84.0	84.0	84.7
≥ 2500		68.7	74.7	78.7	83.3	84.0	84.7	85.3	85.3	86.0	86.7	86.7	86.7	86.7	86.7	87.3
≥ 2000		72.0	79.3	83.3	88.7	89.3	90.7	91.3	91.3	92.0	92.7	92.7	92.7	92.7	92.7	93.3
≥ 1800		73.3	80.7	84.7	90.0	90.7	92.0	92.7	92.7	93.3	94.0	94.0	94.0	94.0	94.0	94.7
≥ 1500		74.0	81.3	85.3	90.7	91.3	92.7	93.3	93.3	94.0	94.7	94.7	94.7	94.7	94.7	95.3
≥ 1200		74.0	82.0	86.7	92.0	92.7	94.0	94.7	94.7	95.3	96.0	96.0	96.0	96.0	96.0	96.7
≥ 1000		74.7	82.7	87.3	92.7	93.3	94.7	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	97.3
≥ 900		74.7	82.7	87.3	92.7	93.3	94.7	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	97.3
≥ 800		74.7	82.7	87.3	92.7	93.3	94.7	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	97.3
≥ 700		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	98.0
≥ 600		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	98.0
≥ 500		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	98.0
≥ 400		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	98.0
≥ 300		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	98.0
≥ 200		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	98.7
≥ 100		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	99.3
0		75.3	83.3	88.0	93.3	94.0	95.3	96.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH) 10 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		45.3	50.0	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 20000		52.0	56.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 18000		52.7	57.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 16000		52.7	57.3	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 14000		54.0	58.7	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 12000		55.3	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 10000		59.3	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000		60.7	65.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 8000		66.0	70.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 7000		68.7	74.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 6000		68.7	74.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 5000		68.7	74.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500		68.7	74.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 4000		70.0	76.7	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500		70.7	77.3	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3000		71.3	78.0	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2500		72.7	79.3	82.0	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 2000		76.0	83.3	86.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800		76.0	83.3	86.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500		79.3	86.7	90.0	92.0	92.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200		79.3	86.7	90.7	92.7	92.7	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1000		80.7	88.7	92.7	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		80.7	88.7	92.7	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800		80.7	88.7	92.7	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700		80.7	88.7	92.7	95.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600		80.7	88.7	92.7	95.3	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500		80.7	88.7	92.7	96.0	96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		80.7	88.7	92.7	96.0	96.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	100.0	100.0
≥ 300		80.7	88.7	92.7	96.0	96.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	100.0	100.0
≥ 200		80.7	88.7	92.7	96.0	96.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	100.0	100.0
≥ 100		80.7	88.7	92.7	96.0	96.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	100.0	100.0
0		80.7	88.7	92.7	96.0	96.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

13 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		52.0	54.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 20000		60.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 18000		60.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000		60.7	63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 14000		61.3	64.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000		62.0	64.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 10000		64.7	67.3	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 9000		66.0	68.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 8000		70.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 7000		72.7	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000		72.7	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 5000		72.7	76.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500		74.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000		76.0	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3500		77.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 3000		78.7	82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 2500		79.3	84.0	86.0	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2000		82.7	88.7	90.7	90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800		82.7	88.7	90.7	90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500		84.0	90.7	92.7	92.7	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7
≥ 1200		84.7	92.0	94.0	94.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0
≥ 1000		86.0	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7
≥ 900		86.0	94.0	96.7	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7
≥ 800		86.0	94.0	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3
≥ 700		86.0	94.0	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3
≥ 600		86.0	94.0	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3
≥ 500		86.0	94.0	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3
≥ 400		86.0	94.0	96.7	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 300		86.0	94.0	96.7	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 200		86.0	94.0	96.7	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 100		86.0	94.0	96.7	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0
0		86.0	94.0	96.7	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		54.7	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 20000		65.3	68.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 18000		65.3	68.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 16000		65.3	68.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 14000		66.0	69.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 12000		66.7	70.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000		68.7	72.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 9000		69.3	72.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 8000		72.7	76.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 7000		74.0	78.0	81.3	81.3	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 6000		74.0	78.0	82.0	82.0	82.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 5000		74.7	78.7	82.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500		76.0	80.0	84.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4000		77.3	81.3	85.3	85.3	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3500		80.0	84.7	88.7	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000		83.3	88.0	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2500		84.7	89.3	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 2000		86.0	90.7	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800		86.0	90.7	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500		88.0	92.7	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200		88.7	93.3	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		89.3	94.0	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		89.3	94.0	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		89.3	94.0	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

19 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		56.0	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	60.0	60.0	60.0	60.0	60.0	60.0
≥ 20000		66.0	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7
≥ 18000		66.7	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3
≥ 16000		66.7	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3
≥ 14000		67.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0
≥ 12000		67.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0
≥ 10000		70.0	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7
≥ 9000		70.0	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7
≥ 8000		74.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3
≥ 7000		78.0	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7
≥ 6000		79.3	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0
≥ 5000		79.3	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0
≥ 4500		80.7	85.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4000		81.3	86.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3500		82.7	87.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3000		85.3	90.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2500		87.3	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2000		90.0	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800		90.7	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1500		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		91.3	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH) 22 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.7	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.3	67.3
≥ 20000		64.7	68.7	69.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.7	70.7
IV ≥ 18000		65.3	69.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3
IV ≥ 16000		65.3	69.3	70.0	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3
IV ≥ 14000		66.0	70.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0	72.0
IV ≥ 12000		66.0	70.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	72.0	72.0
IV ≥ 10000		69.3	73.3	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.3	75.3
IV ≥ 9000		69.3	73.3	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	75.3	75.3
IV ≥ 8000		72.7	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3
IV ≥ 7000		74.7	79.3	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3
IV ≥ 6000		74.7	79.3	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3
IV ≥ 5000		76.7	81.3	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	83.3	83.3
IV ≥ 4500		77.3	82.0	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	84.0	84.0
IV ≥ 4000		79.3	84.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	86.0	86.0
IV ≥ 3500		80.7	85.3	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	87.3	87.3
IV ≥ 3000		84.0	88.7	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.7	90.7
IV ≥ 2500		89.3	94.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0
IV ≥ 2000		91.3	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7
IV ≥ 1800		92.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3
IV ≥ 1500		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 1200		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 1000		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 900		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 800		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 700		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 600		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 500		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 400		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 300		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 200		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV ≥ 100		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
IV 0		92.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) APR (MONTH)

ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		54.3	56.8	58.1	58.7	58.7	58.8	58.9	58.9	59.1	59.3	59.3	59.3	59.3	59.5	59.7
≥ 20000		60.4	63.6	64.9	65.6	65.6	65.8	65.8	65.8	66.0	66.2	66.3	66.3	66.3	66.4	66.7
≥ 18000		60.7	63.8	65.2	65.8	65.8	66.0	66.1	66.1	66.3	66.4	66.5	66.5	66.5	66.7	66.9
≥ 16000		60.8	63.9	65.3	65.9	65.9	66.1	66.2	66.2	66.3	66.5	66.6	66.6	66.6	66.8	67.0
≥ 14000		61.3	64.5	65.8	66.5	66.5	66.7	66.8	66.8	66.9	67.1	67.2	67.2	67.2	67.3	67.6
≥ 12000		62.2	65.3	66.7	67.3	67.3	67.5	67.6	67.6	67.8	67.9	68.0	68.0	68.0	68.2	68.4
≥ 10000		64.7	67.9	69.3	69.9	69.9	70.1	70.2	70.2	70.3	70.5	70.6	70.6	70.6	70.8	71.0
≥ 9000		65.1	68.3	69.7	70.3	70.3	70.5	70.6	70.6	70.8	70.9	71.0	71.0	71.0	71.2	71.4
≥ 8000		68.9	72.7	74.2	74.9	74.9	75.1	75.3	75.3	75.4	75.6	75.7	75.7	75.7	75.8	76.1
≥ 7000		71.3	75.7	77.4	78.3	78.4	78.6	78.8	78.8	78.9	79.1	79.2	79.2	79.2	79.3	79.6
≥ 6000		71.5	76.0	77.8	78.8	78.8	79.0	79.2	79.2	79.3	79.5	79.6	79.6	79.6	79.8	80.0
≥ 5000		72.3	76.8	78.8	79.7	79.8	80.0	80.2	80.2	80.3	80.5	80.6	80.6	80.6	80.8	81.0
≥ 4500		73.5	78.2	80.2	81.1	81.2	81.4	81.6	81.6	81.8	81.9	82.0	82.0	82.0	82.2	82.4
≥ 4000		75.3	80.0	82.0	82.9	83.0	83.3	83.4	83.4	83.6	83.8	83.8	83.8	83.8	84.0	84.3
≥ 3500		76.7	81.5	83.7	84.6	84.7	84.9	85.1	85.1	85.3	85.4	85.5	85.5	85.5	85.7	85.9
≥ 3000		79.0	84.1	86.3	87.3	87.4	87.7	87.8	87.8	88.0	88.2	88.3	88.3	88.3	88.4	88.7
≥ 2500		81.4	87.0	89.4	90.4	90.5	90.9	91.1	91.1	91.3	91.4	91.5	91.5	91.5	91.7	91.9
≥ 2000		83.8	89.9	92.3	93.5	93.6	94.1	94.3	94.3	94.4	94.6	94.7	94.7	94.7	94.8	95.1
≥ 1800		84.2	90.3	92.8	93.9	94.0	94.5	94.7	94.7	94.8	95.0	95.1	95.1	95.1	95.3	95.5
≥ 1500		85.4	91.8	94.3	95.4	95.6	96.1	96.3	96.3	96.5	96.7	96.8	96.8	96.8	97.0	97.3
≥ 1200		85.6	92.1	94.8	95.9	96.1	96.6	96.8	96.8	97.0	97.2	97.3	97.3	97.3	97.5	97.8
≥ 1000		86.3	93.0	95.8	97.0	97.2	97.7	97.9	97.9	98.1	98.3	98.3	98.4	98.4	98.6	98.8
≥ 900		86.3	93.0	95.8	97.0	97.2	97.7	97.9	97.9	98.1	98.3	98.3	98.4	98.4	98.6	98.8
≥ 800		86.3	93.0	95.8	97.1	97.3	97.8	98.1	98.1	98.3	98.4	98.5	98.6	98.6	98.8	99.0
≥ 700		86.4	93.2	95.9	97.3	97.5	98.0	98.3	98.3	98.4	98.6	98.7	98.8	98.8	98.9	99.2
≥ 600		86.4	93.2	95.9	97.3	97.5	98.1	98.3	98.3	98.5	98.7	98.8	98.8	98.8	99.0	99.3
≥ 500		86.4	93.2	95.9	97.3	97.6	98.2	98.5	98.5	98.7	98.8	98.9	99.0	99.0	99.2	99.4
≥ 400		86.4	93.2	96.0	97.5	97.8	98.3	98.7	98.7	98.9	99.1	99.2	99.3	99.3	99.5	99.8
≥ 300		86.4	93.2	96.0	97.5	97.8	98.3	98.7	98.7	98.9	99.1	99.2	99.3	99.3	99.5	99.8
≥ 200		86.4	93.2	96.0	97.5	97.8	98.3	98.7	98.7	98.9	99.1	99.2	99.3	99.3	99.5	99.8
≥ 100		86.4	93.2	96.0	97.5	97.8	98.3	98.7	98.7	98.9	99.1	99.2	99.3	99.3	99.5	99.9
≥ 0		86.4	93.2	96.0	97.5	97.8	98.3	98.7	98.7	98.9	99.1	99.2	99.3	99.3	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH) 01 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		69.0	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 20000		72.3	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 18000		72.9	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 16000		72.9	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 14000		72.9	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 12000		72.9	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 10000		73.6	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 9000		73.6	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 8000		75.5	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 7000		76.8	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 6000		76.8	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 5000		77.4	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4500		77.4	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4000		78.1	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3500		80.0	84.5	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 3000		81.3	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2500		81.9	86.5	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2000		83.9	88.4	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1800		84.5	89.0	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1500		85.2	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200		89.0	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000		90.3	94.8	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900		90.3	94.8	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800		90.3	94.8	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		91.0	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		91.6	97.4	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.6	97.4	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.6	97.4	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.6	97.4	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.6	97.4	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.6	97.4	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		91.6	97.4	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

04 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		67.7	70.3	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 20000		69.7	72.3	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 18000		70.3	72.9	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 16000		70.3	72.9	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 14000		70.3	72.9	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 12000		70.3	72.9	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000		71.6	74.2	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 9000		71.6	74.2	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 8000		74.2	76.8	77.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000		75.5	78.1	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000		75.5	78.1	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 5000		76.8	79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4500		78.1	80.7	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 4000		80.0	82.6	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3500		80.0	82.6	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 3000		80.0	83.2	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2500		81.9	85.2	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000		82.6	85.8	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1800		82.6	85.8	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1500		84.5	89.0	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200		86.5	91.0	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1000		88.4	92.9	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900		88.4	92.9	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 800		89.0	95.5	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		89.7	96.1	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600		89.7	96.1	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		89.7	96.1	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		89.7	96.1	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		90.3	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		90.3	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		90.3	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
0		90.3	96.8	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

07 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		48.4	51.6	54.8	55.5	56.1	56.8	56.8	56.8	56.8	56.8	56.8	57.4	57.4	57.4	57.4
≥ 20000		51.0	55.5	59.4	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	62.6
≥ 18000		51.0	55.5	59.4	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	62.6
≥ 16000		51.0	55.5	59.4	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	62.6
≥ 14000		51.6	56.1	60.7	61.9	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9
≥ 12000		51.6	56.1	60.7	61.9	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.9	63.9	63.9	63.9
≥ 10000		52.3	56.8	61.3	62.6	63.2	63.9	63.9	63.9	63.9	63.9	63.9	64.5	64.5	64.5	64.5
≥ 9000		52.9	57.4	61.9	63.2	63.9	64.5	64.5	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2
≥ 8000		58.1	63.9	68.4	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3
≥ 7000		61.9	68.4	72.9	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8
≥ 6000		61.9	68.4	72.9	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8
≥ 5000		63.2	69.7	74.2	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1
≥ 4500		63.9	71.0	75.5	77.4	78.1	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4	79.4
≥ 4000		65.8	72.9	77.4	79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.9	81.9	81.9	81.9
≥ 3500		68.4	75.5	80.0	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	84.5	84.5	84.5	84.5
≥ 3000		69.7	76.8	81.9	83.9	84.5	85.8	85.8	85.8	85.8	85.8	85.8	86.5	86.5	86.5	86.5
≥ 2500		71.0	78.7	83.9	85.8	86.5	87.7	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4
≥ 2000		73.6	81.9	87.7	89.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.3
≥ 1800		73.6	81.9	87.7	89.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.3
≥ 1500		75.5	83.9	89.7	91.6	92.3	93.6	93.6	93.6	93.6	93.6	93.6	94.2	94.2	94.2	94.2
≥ 1200		76.1	85.2	91.0	92.9	93.6	94.8	94.8	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5
≥ 1000		76.1	85.2	91.0	92.9	93.6	95.5	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1
≥ 900		76.1	85.8	92.3	94.2	94.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4
≥ 800		76.8	87.1	93.6	95.5	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7
≥ 700		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
≥ 600		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
≥ 500		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
≥ 400		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 300		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 200		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 100		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0
≥ 0		76.8	87.1	94.2	96.1	96.8	98.7	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY, JAN 75

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

10 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		54.8	55.5	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 20000		59.4	60.0	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 18000		59.4	60.0	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 16000		59.4	60.0	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000		59.4	60.0	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 12000		59.4	60.0	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000		60.7	61.3	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 9000		60.7	61.3	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 8000		63.2	63.9	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 7000		65.2	65.8	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 6000		65.2	65.8	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 5000		67.1	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 4500		67.1	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 4000		68.4	69.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3500		71.0	72.3	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3000		73.6	74.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 2500		76.8	78.1	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2000		83.2	85.2	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800		83.9	86.5	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1500		85.2	87.7	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200		86.5	89.7	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1000		87.1	91.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900		87.7	92.3	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800		88.4	93.6	96.1	97.4	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		88.4	93.6	96.1	97.4	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		88.4	93.6	96.1	97.4	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		88.4	93.6	96.8	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		88.4	93.6	96.8	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		88.4	93.6	96.8	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		88.4	93.6	96.8	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		88.4	93.6	96.8	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		88.4	93.6	96.8	98.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | MAY (MONTH) | 13 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		63.2	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 20000		69.7	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 18000		71.0	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 16000		71.0	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 14000		71.6	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 12000		71.6	74.8	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 10000		72.9	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 9000		72.9	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 8000		76.1	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 7000		78.1	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 6000		78.1	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 5000		78.7	82.6	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 4500		79.4	83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4000		81.9	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3500		82.6	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 3000		83.2	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 2500		85.2	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000		88.4	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800		89.7	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500		91.0	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200		91.0	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		91.6	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		91.6	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

16 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		69.0	70.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 20000		76.8	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 18000		76.8	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 16000		76.8	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 14000		76.8	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 12000		76.8	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 10000		78.7	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 9000		79.4	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 8000	.7	81.9	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 7000	.7	82.6	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 6000	.7	82.6	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 5000	.7	83.2	86.5	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4500	.7	83.9	87.1	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 4000	.7	84.5	87.7	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3500	.7	85.8	89.0	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 3000	.7	87.7	91.0	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2500	.7	88.4	91.6	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2000	.7	90.3	93.6	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	.7	91.0	94.2	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	.7	91.6	94.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200	.7	92.3	95.5	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000	.7	92.3	95.5	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	.7	92.3	95.5	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	.7	92.3	95.5	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	.7	92.3	95.5	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	.7	92.3	95.5	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	.7	92.3	95.5	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	.7	92.3	95.5	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	.7	92.3	95.5	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	.7	92.3	95.5	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	.7	92.3	95.5	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	.7	92.3	95.5	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

19 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.7	65.2	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 20000	.7	72.9	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 18000	.7	72.9	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 16000	.7	72.9	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 14000	.7	72.9	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 12000	.7	72.9	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 10000	.7	76.8	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 9000	.7	76.8	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 8000	.7	80.7	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 7000	.7	82.6	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 6000	.7	82.6	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 5000	.7	82.6	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 4500	.7	83.9	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000	.7	83.9	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3500	.7	83.9	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3000	.7	85.8	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500	.7	87.1	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000	.7	90.3	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800	.7	90.3	93.6	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500	.7	91.0	94.2	96.1	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1200	.7	92.3	95.5	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000	.7	92.9	96.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900	.7	92.9	96.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800	.7	92.9	96.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	.7	92.9	96.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	.7	92.9	96.8	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	.7	92.9	96.8	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	.7	92.9	96.8	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	.7	92.9	96.8	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	.7	92.9	96.8	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	.7	92.9	96.8	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	.7	92.9	96.8	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) MAY (MONTH)

22 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		70.3	73.6	74.2	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 20000		73.6	76.8	77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 18000		73.6	76.8	77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 16000		73.6	76.8	77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 14000		73.6	76.8	77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 12000		73.6	76.8	77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 10000		75.5	78.7	79.4	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 9000		75.5	78.7	79.4	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 8000		79.4	82.6	83.2	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 7000		80.0	83.9	84.5	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 6000		80.0	83.9	84.5	85.8	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 5000		81.3	85.2	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4500		81.3	85.2	86.5	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000		83.2	87.1	88.4	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3500		83.2	87.1	88.4	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 3000		83.9	87.7	89.0	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500		84.5	88.4	89.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000		85.2	89.0	90.3	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800		86.5	91.0	92.3	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1500		87.1	91.6	92.9	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200		87.7	92.3	93.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000		90.3	95.5	96.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		90.3	95.5	96.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		91.0	96.1	97.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | RUTA, SPAIN (STATION NAME) | 73-77 (YEARS) | MAY (MONTH) | ALL (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.1	63.5	65.8	66.8	67.4	67.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 20000	.1	68.2	70.8	71.9	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	73.0	73.0	73.0	73.0
≥ 18000	.1	68.5	71.1	72.3	73.0	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
≥ 16000	.1	68.5	71.1	72.3	73.0	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
≥ 14000	.1	68.6	71.3	72.5	73.2	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.6	73.6	73.6	73.6
≥ 12000	.1	68.6	71.5	72.7	73.4	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.7	73.7	73.7	73.7
≥ 10000	.1	70.2	73.3	74.5	75.2	75.3	75.5	75.5	75.5	75.5	75.5	75.5	75.6	75.6	75.6	75.6
≥ 9000	.1	70.4	73.5	74.7	75.4	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
≥ 8000	.2	73.6	76.9	78.1	78.9	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.2
≥ 7000	.2	75.3	78.8	80.0	80.8	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 6000	.2	75.3	78.8	80.0	80.8	80.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 5000	.2	76.3	79.8	81.1	81.9	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 4500	.2	76.9	80.5	81.9	82.7	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1
≥ 4000	.2	78.2	81.9	83.3	84.1	84.2	84.5	84.5	84.5	84.5	84.5	84.5	84.6	84.6	84.6	84.6
≥ 3500	.2	79.4	83.1	84.5	85.3	85.4	85.7	85.7	85.7	85.7	85.7	85.7	85.8	85.8	85.8	85.8
≥ 3000	.2	80.7	84.5	86.1	86.9	86.9	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2500	.2	82.1	86.1	87.6	88.4	88.5	88.8	88.8	88.8	88.8	88.8	88.8	88.9	88.9	88.9	88.9
≥ 2000	.2	84.7	88.8	90.6	91.4	91.5	91.8	91.8	91.8	91.8	91.8	91.8	91.9	91.9	91.9	91.9
≥ 1800	.2	85.2	89.6	91.4	92.2	92.3	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	.2	86.4	90.9	92.7	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.1	94.1	94.1	94.1
≥ 1200	.2	87.7	92.3	94.2	95.0	95.1	95.4	95.5	95.5	95.5	95.5	95.5	95.6	95.6	95.6	95.6
≥ 1000	.2	88.6	93.6	95.7	96.7	96.8	97.2	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900	.2	88.7	93.8	96.1	97.0	97.3	97.7	97.7	97.7	97.7	97.7	97.7	97.8	97.8	97.8	97.8
≥ 800	.2	89.0	94.5	96.9	98.0	98.3	98.8	98.9	98.9	98.9	98.9	98.9	99.0	99.0	99.0	99.0
≥ 700	.2	89.2	94.8	97.3	98.4	98.7	99.2	99.3	99.3	99.3	99.3	99.3	99.4	99.4	99.4	99.4
≥ 600	.2	89.3	95.0	97.5	98.6	99.0	99.4	99.5	99.5	99.5	99.6	99.6	99.7	99.7	99.7	99.7
≥ 500	.2	89.3	95.0	97.6	98.7	99.0	99.5	99.6	99.6	99.6	99.7	99.7	99.8	99.8	99.8	99.8
≥ 400	.2	89.3	95.0	97.6	98.7	99.0	99.5	99.6	99.6	99.7	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	.2	89.4	95.1	97.7	98.9	99.2	99.7	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 200	.2	89.4	95.1	97.7	98.9	99.2	99.7	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 100	.2	89.4	95.1	97.7	98.9	99.2	99.7	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0
≥ 0	.2	89.4	95.1	97.7	98.9	99.2	99.7	99.8	99.8	99.8	99.9	99.9	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | JUN (MONTH) | 01 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		66.0	72.0	74.0	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 20000		68.0	74.0	76.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 18000		68.0	74.0	76.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 16000		68.0	74.0	76.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 14000		68.0	74.0	76.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 12000		68.0	74.0	76.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 10000		68.7	74.7	76.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 9000		68.7	74.7	76.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 8000		72.7	78.7	80.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 7000		72.7	78.7	80.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000		72.7	78.7	80.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000		73.3	79.3	81.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4500		73.3	79.3	81.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000		74.0	80.7	82.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3500		74.0	80.7	82.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3000		74.0	80.7	82.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2500		75.3	82.0	84.0	86.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 2000		76.7	83.3	86.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1800		78.0	84.7	88.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1500		80.0	86.7	90.0	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200		81.3	88.7	92.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1000		82.7	90.0	94.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		82.7	90.0	94.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800		83.3	90.7	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700		83.3	91.3	95.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600		83.3	91.3	95.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500		83.3	91.3	95.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		83.3	91.3	95.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		83.3	91.3	95.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		83.3	91.3	95.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		83.3	91.3	95.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
0		83.3	91.3	95.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH) 04 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		58.0	64.7	66.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 20000		58.0	65.3	67.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 18000		58.0	65.3	67.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 16000		58.7	66.0	68.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 14000		59.3	66.7	68.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 12000		60.7	68.0	70.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 10000		61.3	68.7	70.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 9000		61.3	68.7	70.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 8000		64.7	72.0	74.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000		65.3	72.7	74.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 6000		65.3	72.7	74.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 5000		66.7	74.0	76.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4500		66.7	74.0	76.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4000		67.3	74.7	76.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500		67.3	74.7	76.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000		68.7	76.0	78.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 2500		71.3	78.7	80.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2000		73.3	81.3	84.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800		74.0	82.0	84.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1500		76.0	84.7	88.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200		78.7	87.3	90.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1000		80.0	88.7	92.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		80.0	88.7	92.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800		80.0	88.7	92.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700		80.7	89.3	92.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 600		80.7	90.0	93.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		80.7	90.0	93.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		80.7	90.0	94.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		80.7	90.0	94.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		80.7	90.0	94.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		80.7	90.0	94.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
0		80.7	90.0	94.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

07 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		41.3	50.7	54.7	60.0	60.7	62.0	62.0	62.0	62.0	62.0	62.0	62.7	62.7	62.7	62.7
≥ 20000		45.3	54.7	58.7	64.0	64.7	66.0	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7
≥ 18000		45.3	54.7	58.7	64.0	64.7	66.0	66.0	66.0	66.0	66.0	66.0	66.7	66.7	66.7	66.7
≥ 16000		46.0	55.3	59.3	64.7	65.3	66.7	66.7	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3
≥ 14000		46.0	55.3	59.3	64.7	65.3	66.7	66.7	66.7	66.7	66.7	66.7	67.3	67.3	67.3	67.3
≥ 12000		46.7	56.0	60.0	65.3	66.0	67.3	67.3	67.3	67.3	67.3	67.3	68.0	68.0	68.0	68.0
≥ 10000		48.0	58.0	62.7	68.0	68.7	70.0	70.0	70.0	70.0	70.0	70.0	70.7	70.7	70.7	70.7
≥ 9000		48.7	58.7	63.3	68.7	69.3	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	71.3
≥ 8000		50.0	62.0	66.7	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 7000		50.0	62.0	66.7	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 6000		50.0	62.0	66.7	72.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 5000		50.7	62.7	67.3	72.7	73.3	74.7	74.7	74.7	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 4500		50.7	62.7	67.3	72.7	73.3	74.7	74.7	74.7	74.7	74.7	74.7	75.3	75.3	75.3	75.3
≥ 4000		52.0	64.0	69.3	74.7	75.3	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3	77.3
≥ 3500		52.0	64.0	69.3	74.7	75.3	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3	77.3
≥ 3000		54.7	66.7	72.7	78.0	79.3	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3
≥ 2500		56.0	68.0	74.7	80.0	81.3	82.7	82.7	82.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3
≥ 2000		58.0	70.0	76.7	82.0	83.3	84.7	84.7	84.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3
≥ 1800		58.7	70.7	77.3	82.7	84.0	85.3	85.3	85.3	85.3	85.3	85.3	86.0	86.0	86.0	86.0
≥ 1500		60.7	74.0	82.0	88.7	90.0	91.3	91.3	91.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0
≥ 1200		63.3	76.7	84.7	91.3	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7
≥ 1000		64.0	77.3	85.3	92.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0
≥ 900		64.0	77.3	85.3	93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7
≥ 800		64.0	77.3	85.3	94.0	95.3	96.7	96.7	96.7	96.7	96.7	96.7	97.3	97.3	97.3	97.3
≥ 700		64.0	77.3	85.3	94.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0
≥ 600		64.0	77.3	85.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7
≥ 500		64.0	77.3	85.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7
≥ 400		64.0	77.3	85.3	95.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3
≥ 300		64.0	77.3	85.3	95.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	100.0
≥ 200		64.0	77.3	85.3	95.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	100.0
≥ 100		64.0	77.3	85.3	95.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	100.0
0		64.0	77.3	85.3	95.3	97.3	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RDTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		50.7	56.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 20000		54.0	59.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 18000		54.0	59.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 16000		54.7	60.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
≥ 14000		54.7	60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 12000		54.7	61.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 10000		55.3	62.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000		56.0	62.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 8000		58.0	65.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 7000		58.7	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 6000		58.7	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 5000		58.7	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 4500		58.7	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 4000		60.0	67.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 3500		61.3	68.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 3000		64.7	72.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 2500		68.0	75.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 2000		74.7	82.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1800		74.7	82.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 1500		80.7	91.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200		81.3	92.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		81.3	92.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900		81.3	92.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800		81.3	92.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		81.3	92.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		81.3	92.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		81.3	92.7	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		81.3	92.7	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		81.3	92.7	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		81.3	92.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		81.3	92.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		81.3	92.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH) 13 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		64.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 20000		68.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 18000		68.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 16000		68.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 14000		68.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 12000		69.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 10000		70.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 9000		70.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 8000		72.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 7000		73.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 6000		73.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 5000		73.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500		73.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4000		77.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3500		77.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000		80.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2500		83.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2000		85.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1800		86.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		88.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		88.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		88.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		88.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		66.7	78.0	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 20000		72.0	83.3	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 18000		72.0	83.3	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 16000		72.0	83.3	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 14000		72.7	84.0	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 12000		73.3	84.7	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 10000		74.7	86.0	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 9000		74.7	86.0	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 8000		76.7	88.0	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 7000		78.0	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 6000		78.0	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 5000		78.0	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4500		78.0	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 4000		80.0	91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 3500		81.3	92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 3000		84.0	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2500		84.7	96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2000		84.7	96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800		85.3	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		86.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		86.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000		86.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		86.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		86.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		86.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		86.0	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		86.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		86.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		86.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		86.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		86.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		86.0	97.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

19 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		64.7	74.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 20000		70.7	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 18000		70.7	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 16000		70.7	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 14000		71.3	81.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 12000		72.7	82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 10000		73.3	83.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 9000		74.7	84.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 8000		76.7	87.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 7000		76.7	87.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 6000		76.7	87.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 5000		76.7	87.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4500		76.7	87.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4000		77.3	88.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3500		77.3	88.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3000		78.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2500		80.0	90.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2000		82.0	93.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800		82.7	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1500		83.3	94.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1200		83.3	94.7	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1000		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		83.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		66.7	74.0	79.3	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 20000		71.3	78.7	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 18000		71.3	78.7	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 16000		71.3	78.7	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 14000		71.3	78.7	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 12000		71.3	78.7	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 10000		72.0	79.3	84.7	85.3	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 9000		73.3	80.7	86.0	86.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 8000		74.7	82.7	88.0	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 7000		74.7	82.7	88.0	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 6000		74.7	82.7	88.0	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 5000		75.3	83.3	88.7	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 4500		76.0	84.0	89.3	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 4000		76.0	84.0	89.3	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3500		76.0	84.0	89.3	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3000		76.0	84.0	89.3	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2500		78.0	86.0	92.0	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2000		80.0	88.0	94.0	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1800		80.7	88.7	94.7	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500		80.7	89.3	95.3	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1200		80.7	89.3	96.0	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000		81.3	90.7	97.3	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		81.3	90.7	97.3	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		81.3	90.7	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		81.3	90.7	97.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) JUN (MONTH)

ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		59.8	67.8	70.1	71.8	71.8	72.1	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3
≥ 20000		63.4	71.5	73.8	75.5	75.6	75.8	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0
≥ 18000		63.4	71.5	73.8	75.5	75.6	75.8	75.9	75.9	75.9	75.9	75.9	76.0	76.0	76.0	76.0
≥ 16000		63.8	71.8	74.2	75.8	75.9	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
≥ 14000		64.0	72.3	74.6	76.3	76.3	76.6	76.7	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8
≥ 12000		64.6	72.9	75.3	76.9	77.0	77.3	77.3	77.3	77.3	77.3	77.3	77.4	77.4	77.4	77.4
≥ 10000		65.4	73.8	76.3	77.9	78.0	78.3	78.3	78.3	78.3	78.3	78.3	78.4	78.4	78.4	78.4
≥ 9000		65.9	74.3	76.8	78.5	78.6	78.8	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0
≥ 8000		68.2	77.1	79.6	81.3	81.3	81.6	81.7	81.7	81.7	81.7	81.7	81.8	81.8	81.8	81.8
≥ 7000		68.7	77.6	80.1	81.8	81.8	82.1	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
≥ 6000		68.7	77.6	80.1	81.8	81.8	82.1	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
≥ 5000		69.1	78.0	80.5	82.2	82.3	82.5	82.6	82.6	82.6	82.6	82.6	82.7	82.7	82.7	82.7
≥ 4500		69.2	78.1	80.6	82.3	82.3	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.8	82.8
≥ 4000		70.5	79.5	82.1	83.8	83.8	84.1	84.2	84.2	84.2	84.2	84.2	84.3	84.3	84.3	84.3
≥ 3500		70.8	79.8	82.4	84.2	84.3	84.5	84.6	84.6	84.6	84.6	84.6	84.7	84.7	84.7	84.7
≥ 3000		72.7	81.7	84.3	86.1	86.3	86.5	86.6	86.6	86.6	86.6	86.6	86.7	86.7	86.7	86.7
≥ 2500		74.6	83.7	86.5	88.3	88.4	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
≥ 2000		76.8	86.2	89.3	91.1	91.3	91.5	91.6	91.6	91.6	91.6	91.6	91.7	91.7	91.7	91.7
≥ 1800		77.6	86.9	90.1	91.8	92.0	92.3	92.3	92.3	92.3	92.3	92.3	92.4	92.4	92.4	92.4
≥ 1500		79.4	89.6	93.3	95.2	95.3	95.6	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.8
≥ 1200		80.3	90.6	94.3	96.3	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9
≥ 1000		80.8	91.3	95.3	97.4	97.6	97.9	98.0	98.0	98.0	98.0	98.0	98.1	98.1	98.1	98.1
≥ 900		80.8	91.3	95.3	97.5	97.7	98.0	98.1	98.1	98.1	98.1	98.1	98.2	98.2	98.2	98.2
≥ 800		80.9	91.4	95.4	97.8	98.0	98.3	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.5	98.5
≥ 700		81.0	91.6	95.6	98.2	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9	98.9	98.9
≥ 600		81.0	91.7	95.7	98.3	98.6	98.9	99.0	99.0	99.0	99.0	99.0	99.1	99.1	99.1	99.1
≥ 500		81.0	91.7	95.8	98.5	98.8	99.1	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		81.0	91.7	95.8	98.7	98.9	99.3	99.4	99.4	99.4	99.4	99.4	99.5	99.5	99.5	99.5
≥ 300		81.0	91.7	95.8	98.8	99.0	99.3	99.5	99.5	99.5	99.5	99.5	99.6	99.6	99.6	99.7
≥ 200		81.1	91.8	96.0	98.9	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.8
≥ 100		81.1	91.8	96.0	98.9	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	99.9
0		81.1	91.8	96.0	98.9	99.2	99.5	99.7	99.7	99.7	99.7	99.7	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | JUL (MONTH)

01 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		83.9	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.6	91.0	91.0	91.0	91.0	91.0	91.0
≥ 20000		84.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 18000		84.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 16000		84.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 14000		84.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 12000		84.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 10000		84.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 9000		84.5	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 8000		86.5	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 7000		86.5	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 6000		86.5	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 5000		86.5	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 4500		86.5	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 4000		86.5	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 3500		86.5	92.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 3000		86.5	92.9	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2500		86.5	92.9	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000		88.4	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800		88.4	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500		89.0	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		89.0	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000		89.0	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900		89.0	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 800		89.0	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		89.7	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		89.7	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		89.7	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		89.7	98.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		89.7	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		89.7	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		89.7	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		89.7	98.1	98.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | JUL (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

04 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		80.7	85.8	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 20000		80.7	85.8	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 18000		80.7	85.8	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 16000		80.7	85.8	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 14000		80.7	85.8	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 12000		80.7	85.8	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 10000		80.7	85.8	89.0	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 9000		81.3	86.5	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 8000		81.3	86.5	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 7000		81.9	87.1	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 6000		81.9	87.1	90.3	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 5000		81.9	87.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 4500		81.9	87.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 4000		81.9	87.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 3500		81.9	87.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 3000		81.9	87.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2500		83.9	89.7	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2000		85.2	91.0	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1800		85.2	91.0	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1500		87.1	94.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		87.1	94.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		87.1	94.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		87.1	94.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		87.1	94.8	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		87.7	95.5	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | JUL (MONTH)

07 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		65.8	76.1	78.7	79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.9	81.9
≥ 20000		66.5	76.8	80.0	80.7	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	83.2	83.2
≥ 18000		66.5	76.8	80.0	80.7	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	83.2	83.2
≥ 16000		66.5	77.4	80.7	81.3	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.9	83.9
≥ 14000		66.5	77.4	80.7	81.3	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.9	83.9
≥ 12000		66.5	77.4	80.7	81.3	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.9	83.9
≥ 10000		66.5	77.4	81.3	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.5	84.5
≥ 9000		67.1	78.1	81.9	82.6	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	85.2	85.2
≥ 8000		67.7	78.7	82.6	83.2	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8
≥ 7000		67.7	78.7	82.6	83.2	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8
≥ 6000		67.7	78.7	82.6	83.2	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8
≥ 5000		68.4	79.4	83.2	83.9	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.5	86.5
≥ 4500		68.4	79.4	83.2	83.9	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.5	86.5
≥ 4000		68.4	79.4	83.9	84.5	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87.1	87.1
≥ 3500		69.0	80.0	84.5	85.2	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7
≥ 3000		69.7	80.7	85.2	85.8	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4	88.4
≥ 2500		69.7	80.7	85.8	86.5	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	89.0	89.0
≥ 2000		71.0	81.9	87.1	87.7	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3	90.3
≥ 1800		71.0	81.9	87.1	87.7	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	90.3	90.3
≥ 1500		72.3	83.9	89.0	89.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	92.3	92.3
≥ 1200		72.9	84.5	89.7	90.3	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.9	92.9
≥ 1000		73.6	85.8	91.0	91.6	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.8	94.8
≥ 900		74.2	86.5	91.6	92.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.5	95.5
≥ 800		74.2	86.5	91.6	92.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.5	95.5
≥ 700		74.2	86.5	91.6	92.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	95.5	95.5
≥ 600		74.8	87.1	92.3	93.6	94.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4	97.4
≥ 500		74.8	87.1	92.9	94.2	95.5	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.7	98.7
≥ 400		74.8	87.7	93.6	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	99.4	99.4
≥ 300		74.8	87.7	93.6	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	99.4	99.4
≥ 200		74.8	87.7	93.6	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	99.4	99.4
≥ 100		74.8	87.7	93.6	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	99.4	99.4
≥ 0		74.8	87.7	93.6	94.8	96.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.7	71.6	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 20000	.7	72.9	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 18000	.7	73.6	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 16000	.7	73.6	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 14000	.7	73.6	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 12000	.7	73.6	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 10000	.7	75.5	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 9000	.7	75.5	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 8000	.7	76.8	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 7000	.7	77.4	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 6000	.7	77.4	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 5000	.7	78.1	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4500	.7	78.1	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 4000	.7	78.7	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3500	.7	78.7	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 3000	.7	81.3	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500	.7	81.9	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2000	.7	82.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1800	.7	82.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1500	.7	85.2	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200	.7	85.8	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000	.7	86.5	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 900	.7	86.5	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800	.7	87.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700	.7	87.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600	.7	87.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500	.7	87.1	98.1	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400	.7	87.7	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	.7	87.7	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	.7	87.7	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	.7	87.7	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	.7	87.7	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

13 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.7	84.5	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 20000	.7	85.8	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 18000	.7	85.8	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 16000	.7	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 14000	.7	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 12000	.7	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 10000	.7	88.4	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 9000	.7	88.4	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 8000	.7	89.0	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 7000	.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 6000	.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 5000	.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 4500	.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 4000	.7	91.0	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 3500	.7	91.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3000	.7	92.9	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500	.7	92.9	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2000	.7	92.9	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800	.7	92.9	97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500	.7	92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	.7	92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	.7	93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5706 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH) 16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.7	87.7	90.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 20000	.7	88.4	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 18000	.7	88.4	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 16000	.7	88.4	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 14000	.7	88.4	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 12000	.7	88.4	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 10000	.7	88.4	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 9000	.7	88.4	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 8000	.7	89.0	91.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 7000	.7	89.0	91.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 6000	.7	89.0	91.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 5000	.7	89.0	91.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 4500	.7	89.0	91.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 4000	.7	90.3	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3500	.7	90.3	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3000	.7	91.0	93.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 2500	.7	91.6	94.2	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2000	.7	92.3	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800	.7	92.3	94.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500	.7	92.9	96.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0	.7	92.9	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

19 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		91.0	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 20000		92.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 18000		92.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 16000		92.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 14000		92.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 12000		92.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 10000		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 9000		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 8000		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 7000		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 6000		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 5000		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4500		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 4000		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3500		92.9	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3000		94.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2500		94.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2000		94.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800		94.8	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		95.5	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH) 22 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		84.5	91.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 20000		86.5	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 18000		86.5	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 16000		86.5	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 14000		86.5	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 12000		86.5	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 10000		86.5	94.2	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 9000		86.5	94.2	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 8000		87.1	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 7000		87.1	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 6000		87.1	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 5000		87.1	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 4500		87.1	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 4000		87.1	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3500		87.1	94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3000		87.7	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2500		87.7	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000		87.7	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		87.7	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500		87.7	95.5	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		87.7	96.1	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) JUL (MONTH)

ALL (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.2	81.2	86.6	88.2	88.6	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	89.0	89.0
≥ 20000	.2	82.2	87.7	89.6	89.9	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.3	90.3
≥ 18000	.2	82.3	87.7	89.7	90.0	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.4	90.4
≥ 16000	.2	82.3	87.9	89.8	90.2	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6
≥ 14000	.2	82.3	87.9	89.8	90.2	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6
≥ 12000	.2	82.3	87.9	89.8	90.2	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6
≥ 10000	.2	82.9	88.6	90.7	91.0	91.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.4
≥ 9000	.2	83.1	88.8	90.8	91.1	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 8000	.2	83.8	89.5	91.5	91.9	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.3	92.3
≥ 7000	.2	84.0	89.8	91.8	92.1	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5	92.5
≥ 6000	.2	84.0	89.8	91.8	92.1	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5	92.5
≥ 5000	.2	84.2	90.0	92.0	92.3	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4500	.2	84.2	90.0	92.0	92.3	92.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4000	.2	84.6	90.5	92.6	92.9	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.3	93.3
≥ 3500	.2	84.8	90.7	92.7	93.1	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5	93.5
≥ 3000	.2	85.7	91.7	93.8	94.1	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.5	94.5
≥ 2500	.2	86.1	92.2	94.4	94.7	94.8	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.1	95.1
≥ 2000	.2	86.9	93.0	95.2	95.6	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0
≥ 1800	.2	86.9	93.0	95.2	95.6	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	96.0	96.0
≥ 1500	.2	87.8	94.8	97.2	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.9	97.9
≥ 1200	.2	88.0	95.2	97.5	97.8	98.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
≥ 1000	.2	88.2	95.6	97.9	98.2	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7	98.7
≥ 900	.2	88.3	95.7	98.0	98.4	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.9	98.9
≥ 800	.2	88.4	95.8	98.2	98.6	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
≥ 700	.2	88.6	96.0	98.4	98.8	99.0	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.3	99.3
≥ 600	.2	88.6	96.1	98.5	99.0	99.2	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.5	99.5
≥ 500	.2	88.6	96.1	98.6	99.0	99.3	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.7	99.7
≥ 400	.2	88.7	96.2	98.7	99.2	99.4	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
≥ 300	.2	88.7	96.2	98.7	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥ 200	.2	88.7	96.2	98.7	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
≥ 100	.2	88.7	96.2	98.7	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	99.9
0	.2	88.7	96.2	98.7	99.2	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5/03 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

01 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		87.1	90.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 20000		87.7	91.0	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 18000		87.7	91.0	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 16000		87.7	91.0	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 14000		87.7	91.0	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 12000		87.7	91.0	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 10000		89.0	92.3	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 9000		89.7	92.9	94.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 8000		90.3	93.6	95.5	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 7000		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 6000		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 5000		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 4500		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 4000		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3500		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 3000		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2500		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2000		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500		91.0	94.2	96.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		91.6	94.8	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		92.3	95.5	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		92.3	95.5	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | AUG (MONTH) | 04 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		77.4	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 20000		77.4	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 18000		77.4	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 16000		77.4	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 14000		77.4	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 12000		77.4	86.5	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 10000		78.1	87.1	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 9000		78.7	87.7	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 8000		79.4	88.4	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 7000		80.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 6000		80.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 5000		80.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 4500		80.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 4000		80.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3500		80.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3000		80.7	89.7	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2500		81.3	90.3	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2000		81.9	91.0	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800		81.9	91.0	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500		82.6	91.6	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200		83.9	92.9	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1000		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		84.5	94.2	98.1	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

07 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		64.5	74.2	80.0	83.2	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8
≥ 20000		64.5	74.2	80.0	83.2	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8
≥ 18000		64.5	74.2	80.0	83.2	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8
≥ 16000		64.5	74.2	80.0	83.2	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8
≥ 14000		64.5	74.2	80.0	83.2	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8
≥ 12000		64.5	74.2	80.0	83.2	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.8
≥ 10000		65.2	74.8	80.7	83.9	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.5
≥ 9000		65.2	74.8	80.7	83.9	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.5
≥ 8000		65.8	76.1	81.9	85.2	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.7
≥ 7000		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 6000		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 5000		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 4500		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 4000		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 3500		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 3000		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 2500		66.5	76.8	82.6	85.8	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	88.4
≥ 2000		66.5	77.4	83.9	87.1	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.7
≥ 1800		66.5	77.4	83.9	87.1	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.7
≥ 1500		67.7	78.7	85.2	88.4	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	91.0
≥ 1200		69.0	80.0	86.5	90.3	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.9
≥ 1000		69.0	81.3	88.4	92.3	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.8
≥ 900		69.0	81.3	88.4	92.3	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.8
≥ 800		69.0	81.3	88.4	92.9	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	96.1
≥ 700		69.7	81.9	89.0	93.6	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.8
≥ 600		69.7	81.9	89.0	93.6	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.8
≥ 500		69.7	82.6	89.7	94.2	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4	98.1
≥ 400		69.7	82.6	89.7	94.2	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	97.4	98.1
≥ 300		69.7	82.6	89.7	94.2	96.1	96.1	96.8	96.8	96.8	96.8	96.8	97.4	97.4	98.1	98.7
≥ 200		69.7	82.6	89.7	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.7	99.4
≥ 100		69.7	82.6	89.7	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.7	100.0
≥ 0		69.7	82.6	89.7	94.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

10 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		72.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 20000		74.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 18000		74.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 16000		74.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 14000		74.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 12000		74.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 10000		74.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 9000		74.8	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000		76.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 7000		76.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 6000		76.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 5000		76.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4500		76.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4000		76.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3500		76.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3000		77.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2500		78.7	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 2000		79.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1800		80.0	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500		81.3	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200		81.3	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000		83.2	92.3	94.8	94.8	94.8	94.8	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900		83.2	92.9	96.1	96.1	96.1	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 800		83.2	92.9	96.1	96.1	96.1	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		83.9	93.6	96.8	96.8	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600		83.9	93.6	96.8	96.8	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500		83.9	94.2	97.4	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		83.9	94.2	97.4	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		83.9	94.2	97.4	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		83.9	94.2	97.4	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		83.9	94.2	97.4	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0
0		83.9	94.2	97.4	98.1	98.1	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

13 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		85.2	91.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 20000		87.1	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 18000		87.1	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 16000		87.1	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 14000		87.1	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 12000		87.1	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 10000		87.1	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 9000		87.1	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 8000		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 7000		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 6000		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 5000		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4500		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4000		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 3500		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 3000		87.7	93.6	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2500		88.4	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2000		90.3	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800		90.3	96.8	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		91.6	98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | AUG MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

16 HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		88.4	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 20000		92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 18000		92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 16000		92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 14000		92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 12000		92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 10000		92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 9000		92.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 8000		92.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 7000		92.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 6000		92.9	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 5000		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		93.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

19 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		89.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 20000		90.3	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 18000		90.3	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 16000		90.3	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 14000		90.3	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 12000		90.3	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 10000		91.6	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 9000		91.6	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 8000		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 7000		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 6000		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 5000		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 4500		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 4000		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 3500		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 3000		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2500		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 2000		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		92.9	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		93.6	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH)

22 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		89.0	95.5	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 20000		89.0	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 18000		89.0	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 16000		89.0	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 14000		89.0	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 12000		89.0	96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 10000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 9000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 8000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 7000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 6000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 5000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4500		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 4000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3500		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 3000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2500		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 2000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1800		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1500		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1200		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		90.3	97.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) AUG (MONTH) ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		81.6	87.7	89.9	90.7	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0
≥ 20000		82.8	89.3	91.5	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5
≥ 18000		82.8	89.3	91.5	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5
≥ 16000		82.8	89.3	91.5	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5
≥ 14000		82.8	89.3	91.5	92.2	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.5
≥ 12000		82.9	89.4	91.5	92.3	92.4	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.6
≥ 10000		83.6	90.0	92.2	92.9	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 9000		83.8	90.2	92.4	93.2	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.5
≥ 8000		84.5	91.1	93.2	94.0	94.1	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.3
≥ 7000		84.8	91.4	93.6	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6
≥ 6000		84.8	91.4	93.6	94.3	94.4	94.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.6
≥ 5000		84.9	91.5	93.6	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7
≥ 4500		84.9	91.5	93.6	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7
≥ 4000		84.9	91.5	93.6	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7
≥ 3500		84.9	91.5	93.6	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.7
≥ 3000		85.0	91.5	93.7	94.4	94.6	94.6	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.8
≥ 2500		85.3	91.9	94.0	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.1
≥ 2000		85.7	92.6	94.8	95.6	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.9
≥ 1800		85.8	92.7	95.0	95.7	95.9	95.9	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.1
≥ 1500		86.4	93.4	95.9	96.6	96.8	96.8	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
≥ 1200		86.8	93.9	96.4	97.2	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.5
≥ 1000		87.3	94.7	97.3	98.2	98.4	98.4	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.7
≥ 900		87.3	94.8	97.5	98.5	98.6	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	99.0
≥ 800		87.3	94.8	97.5	98.6	98.8	98.8	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.1
≥ 700		87.4	94.9	97.7	98.7	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
≥ 600		87.4	94.9	97.7	98.7	99.0	99.0	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.3
≥ 500		87.4	95.1	97.8	99.0	99.2	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.7
≥ 400		87.4	95.1	97.8	99.0	99.2	99.3	99.4	99.4	99.4	99.5	99.5	99.5	99.5	99.6	99.7
≥ 300		87.4	95.1	97.8	99.0	99.2	99.3	99.4	99.4	99.4	99.5	99.5	99.6	99.6	99.7	99.8
≥ 200		87.4	95.1	97.8	99.0	99.3	99.4	99.5	99.5	99.5	99.6	99.6	99.7	99.7	99.8	99.8
≥ 100		87.4	95.1	97.8	99.0	99.3	99.4	99.5	99.5	99.6	99.7	99.7	99.8	99.8	99.8	100.0
0		87.4	95.1	97.8	99.0	99.3	99.4	99.5	99.5	99.6	99.7	99.7	99.8	99.8	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH) 01 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		82.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 20000		86.7	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 18000		87.3	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 16000		87.3	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 14000		87.3	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 12000		87.3	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 10000		88.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 9000		88.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 8000		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 7000		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 6000		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 5000		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 4500		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 4000		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 3500		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 3000		90.0	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2500		90.7	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2000		91.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1800		91.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1500		92.7	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1200		94.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1000		94.0	96.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0		94.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH) 04 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		82.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 20000		82.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 18000		82.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 16000		82.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 14000		83.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 12000		84.0	86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 10000		85.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 9000		85.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 8000		86.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 7000		86.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 6000		86.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 5000		86.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 4500		86.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 4000		86.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3500		86.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000		87.3	89.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2500		88.0	90.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2000		88.0	90.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800		88.0	90.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500		88.7	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200		90.7	94.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		91.3	94.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900		91.3	94.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800		92.0	95.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 700		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 0		92.7	96.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

07 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		71.3	74.7	76.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 20000		75.3	79.3	81.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 18000		75.3	79.3	81.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 16000		75.3	79.3	81.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 14000		75.3	79.3	81.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 12000		76.0	80.0	82.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 10000		76.7	80.7	82.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 9000		77.3	81.3	83.3	85.3	85.3	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 8000		78.7	82.7	84.7	86.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 7000		78.7	82.7	84.7	86.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 6000		78.7	82.7	84.7	86.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 5000		78.7	82.7	84.7	86.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 4500		78.7	82.7	84.7	86.7	86.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 4000		79.3	83.3	86.0	88.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3500		80.0	84.0	86.7	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000		82.7	86.7	89.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2500		83.3	87.3	90.0	92.0	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 2000		84.7	88.7	91.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1800		84.7	88.7	91.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1500		86.7	90.7	93.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200		86.7	90.7	93.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1000		86.7	90.7	94.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		88.0	92.0	95.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 800		88.7	92.7	96.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 100		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0
≥ 0		89.3	93.3	96.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH) 10 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		72.7	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 20000		80.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 18000		80.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 16000		80.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 14000		80.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 12000		80.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 10000		80.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 9000		80.0	84.0	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 8000		82.0	86.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 7000		82.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 6000		82.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 5000		83.3	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 4500		83.3	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 4000		84.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3500		84.0	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000		84.7	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500		85.3	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2000		87.3	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800		88.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500		90.7	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1200		90.7	95.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		91.3	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900		92.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		92.0	96.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		92.0	96.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		92.0	96.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		92.0	96.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		92.0	96.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		92.0	96.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.0	96.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		92.0	96.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		92.0	96.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH) 13 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		80.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 20000		86.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 18000		86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 16000		86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 14000		86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 12000		86.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 10000		88.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 9000		89.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 8000		90.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 7000		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 6000		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 5000		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4500		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 4000		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 3500		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 3000		90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 2500		92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 2000		92.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800		92.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500		95.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		95.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		96.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		81.3	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 20000		90.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 18000		90.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 16000		90.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 14000		90.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 12000		90.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 10000		91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 9000		92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 8000		92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 7000		92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 6000		92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 5000		92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 4500		92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 4000		93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 3500		93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 3000		94.0	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2500		94.0	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2000		96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800		96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1500		96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		96.7	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH) 19 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		81.3	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 20000		88.7	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 18000		88.7	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 16000		88.7	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 14000		89.3	90.7	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 12000		90.0	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 10000		92.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 9000		92.7	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 8000		93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 7000		93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 6000		93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 5000		93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 4500		93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 4000		93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 3500		93.3	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 3000		94.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2500		94.7	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 2000		96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800		96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		97.3	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RDTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH)

22 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		88.7	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 20000		90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 18000		90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 16000		90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 14000		90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 12000		92.0	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 10000		93.3	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 9000		93.3	96.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 8000		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 7000		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 6000		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 5000		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 4500		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 4000		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3500		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 3000		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2500		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1800		94.0	96.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		94.7	97.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		94.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) SEP (MONTH) ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		80.0	82.6	83.7	83.9	83.9	83.9	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 20000		85.0	87.7	88.8	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 18000		85.2	87.8	88.9	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 16000		85.2	87.8	88.9	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 14000		85.3	88.0	89.1	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 12000		85.8	88.4	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
≥ 10000		87.0	89.7	90.8	91.0	91.0	91.0	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 9000		87.3	89.9	91.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 8000		88.3	91.0	92.1	92.3	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
≥ 7000		88.5	91.2	92.3	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 6000		88.5	91.2	92.3	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
≥ 5000		88.6	91.3	92.3	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4500		88.6	91.3	92.3	92.6	92.6	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 4000		88.8	91.5	92.8	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
≥ 3500		88.9	91.6	92.8	93.1	93.1	93.1	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
≥ 3000		89.8	92.4	93.8	94.0	94.0	94.0	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 2500		90.3	92.9	94.3	94.5	94.5	94.5	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
≥ 2000		91.3	93.9	95.3	95.5	95.5	95.5	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
≥ 1800		91.3	94.0	95.3	95.6	95.6	95.6	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
≥ 1500		92.7	95.5	97.1	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200		93.1	96.0	97.8	98.0	98.0	98.0	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000		93.4	96.3	98.3	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
≥ 900		93.8	96.7	98.6	98.8	98.8	98.8	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
≥ 800		93.9	96.8	98.8	99.1	99.1	99.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700		94.2	97.1	99.1	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 600		94.2	97.1	99.1	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 500		94.2	97.1	99.1	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 400		94.2	97.1	99.1	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 300		94.2	97.1	99.1	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 200		94.2	97.1	99.1	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
≥ 100		94.2	97.1	99.1	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	99.8
0		94.2	97.1	99.1	99.5	99.5	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

01 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		76.1	79.4	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 20000		80.7	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 18000		80.7	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 16000		80.7	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 14000		80.7	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 12000		80.7	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 10000		82.6	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 9000		83.9	87.1	88.4	88.4	88.4	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 8000		87.7	91.0	92.3	92.3	92.3	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 7000		88.4	91.6	92.9	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 6000		89.7	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 5000		90.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4500		90.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 4000		90.3	93.6	94.8	94.8	94.8	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3500		90.3	93.6	94.8	94.8	94.8	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 3000		91.6	94.8	96.1	96.1	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 2500		92.9	96.1	97.4	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 2000		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1800		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1500		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1200		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 1000		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		93.6	96.8	98.1	98.1	98.1	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		93.6	96.8	98.1	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		93.6	96.8	98.1	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		93.6	96.8	98.1	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		93.6	96.8	98.1	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		93.6	96.8	98.1	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		93.6	96.8	98.1	98.7	98.7	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH) 04 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		69.0	72.9	74.2	74.8	74.8	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 20000		72.3	76.8	78.1	78.7	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 18000		72.3	76.8	78.1	78.7	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 16000		72.3	76.8	78.1	78.7	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 14000		72.3	76.8	78.1	78.7	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 12000		72.3	76.8	78.1	78.7	78.7	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 10000		73.6	78.1	79.4	80.0	80.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 9000		74.2	78.7	80.0	80.7	80.7	81.3	81.9	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 8000		76.8	81.3	82.6	83.2	83.2	83.9	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 7000		79.4	83.9	85.2	85.8	85.8	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 6000		80.7	85.2	86.5	87.1	87.1	87.7	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 5000		81.9	86.5	87.7	88.4	88.4	89.0	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 4500		83.2	87.7	89.0	89.7	89.7	90.3	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 4000		85.8	90.3	91.6	92.3	92.3	92.9	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3500		85.8	90.3	91.6	92.3	92.3	92.9	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 3000		87.1	91.6	92.9	93.6	93.6	94.2	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 2500		89.7	94.2	95.5	96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 2000		89.7	94.2	95.5	96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1800		89.7	94.2	95.5	96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1500		90.3	94.8	96.1	96.8	96.8	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		90.3	95.5	97.4	98.1	98.1	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH) 07 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		59.4	64.5	64.5	65.2	65.2	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	67.1	67.1
≥ 20000		64.5	69.7	69.7	70.3	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3
≥ 18000		64.5	69.7	69.7	70.3	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3
≥ 16000		64.5	69.7	69.7	70.3	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3
≥ 14000		64.5	69.7	69.7	70.3	70.3	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3
≥ 12000		65.2	70.3	70.3	71.0	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.9	72.9
≥ 10000		66.5	71.6	71.6	72.3	72.3	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	74.2	74.8
≥ 9000		67.1	72.9	72.9	73.6	73.6	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	75.5	76.1
≥ 8000		70.3	76.1	76.1	76.8	76.8	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.7	79.4
≥ 7000		73.6	79.4	79.4	80.0	80.0	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.9	82.6
≥ 6000		74.2	80.0	80.0	80.7	80.7	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	82.6	83.2
≥ 5000		74.8	80.7	80.7	81.3	81.3	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6	83.2	83.9
≥ 4500		75.5	81.3	81.3	81.9	81.9	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83.2	83.9	84.5
≥ 4000		76.1	81.9	81.9	82.6	82.6	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9	84.5	85.2
≥ 3500		77.4	83.2	83.2	83.9	83.9	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.8	86.5
≥ 3000		79.4	85.8	85.8	86.5	86.5	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7	88.4	89.0
≥ 2500		83.2	89.7	89.7	90.3	90.3	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	92.3	92.9
≥ 2000		83.9	90.3	90.3	91.0	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.9	93.6
≥ 1800		83.9	90.3	90.3	91.0	91.0	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3	92.9	93.6
≥ 1500		84.5	91.0	91.0	91.6	91.6	92.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	94.2
≥ 1200		84.5	91.6	91.6	92.3	92.9	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.8	95.5
≥ 1000		85.2	92.3	92.3	92.9	93.6	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	95.5	96.8
≥ 900		85.2	92.3	92.3	92.9	93.6	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	95.5	96.8
≥ 800		85.2	92.9	92.9	93.6	94.2	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.8	98.1
≥ 700		86.5	94.2	94.2	94.8	95.5	96.1	96.1	96.1	97.4	97.4	97.4	97.4	97.4	98.1	99.4
≥ 600		86.5	94.2	94.2	94.8	95.5	96.1	96.1	96.1	97.4	97.4	97.4	97.4	97.4	98.1	99.4
≥ 500		87.1	94.8	94.8	95.5	96.1	96.8	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.7	100.0
≥ 400		87.1	94.8	94.8	95.5	96.1	96.8	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.7	100.0
≥ 300		87.1	94.8	94.8	95.5	96.1	96.8	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.7	100.0
≥ 200		87.1	94.8	94.8	95.5	96.1	96.8	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.7	100.0
≥ 100		87.1	94.8	94.8	95.5	96.1	96.8	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.7	100.0
≥ 0		87.1	94.8	94.8	95.5	96.1	96.8	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

10 (HOURS (L.S.T.))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		55.5	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.7	58.7	58.7	58.7	59.4	59.4	59.4
≥ 20000		67.1	69.7	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	70.3	71.0	71.0	71.0
≥ 18000		67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	72.3	72.3	72.3
≥ 16000		67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	72.3	72.3	72.3
≥ 14000		67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	72.3	72.3	72.3
≥ 12000		67.7	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	72.3	72.3	72.3
≥ 10000		71.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	75.5	75.5	75.5	75.5	76.1	76.1	76.1
≥ 9000		71.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	75.5	75.5	75.5	75.5	76.1	76.1	76.1
≥ 8000		72.9	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8	77.4	77.4	77.4
≥ 7000		74.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7	79.4	79.4	79.4
≥ 6000		75.5	78.1	78.7	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4	79.4	80.0	80.0	80.0
≥ 5000		76.1	78.7	79.4	79.4	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.7	80.7	80.7
≥ 4500		76.8	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7	81.3	81.3	81.3
≥ 4000		78.7	81.3	81.9	82.6	82.6	82.6	82.6	82.6	83.2	83.2	83.2	83.2	83.9	83.9	83.9
≥ 3500		79.4	81.9	82.6	83.2	83.2	83.2	83.2	83.2	83.9	83.9	83.9	83.9	84.5	84.5	84.5
≥ 3000		81.9	84.5	85.2	85.8	85.8	85.8	85.8	85.8	86.5	86.5	86.5	86.5	87.1	87.1	87.1
≥ 2500		83.2	86.5	87.1	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4	89.0	89.0	89.0
≥ 2000		85.8	89.0	89.7	90.3	90.3	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.6	91.6	91.6
≥ 1800		86.5	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6	92.3	92.3	92.3
≥ 1500		89.0	92.3	92.9	93.6	93.6	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.8	94.8	94.8
≥ 1200		90.3	94.2	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.8	96.8	96.8
≥ 1000		91.0	95.5	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.7	98.7	98.7
≥ 900		91.0	95.5	96.8	97.4	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.1	98.7	98.7	98.7
≥ 800		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4
≥ 700		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4
≥ 600		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	99.4
≥ 500		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	100.0
≥ 400		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	100.0
≥ 300		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	100.0
≥ 200		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	100.0
≥ 100		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	100.0
0		91.0	95.5	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | OCT (MONTH) | 13 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		61.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 20000		71.0	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 18000		71.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 16000		71.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 14000		72.3	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 12000		72.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 10000		76.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 9000		77.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000		78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 7000		81.3	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 6000		81.3	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 5000		82.6	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4500		82.6	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 4000		82.6	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3500		83.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000		87.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2500		89.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000		91.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1800		92.3	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500		94.2	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		94.8	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		94.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		94.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		94.8	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		94.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 7

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH) 16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 20000		72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 18000		73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 16000		73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 14000		73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 12000		74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000		77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 9000		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 8000		82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 7000		86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 6000		87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 5000		87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4500		87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4000		87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 3500		89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3000		91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 2500		92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000		94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800		94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500		96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1200		96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000		97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		97.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		98.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | OCT MONTH

19 HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		63.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 20000		72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 18000		72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 16000		72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 14000		72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 12000		72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 10000		76.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 9000		79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 8000		81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 7000		83.9	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 6000		84.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 5000		85.2	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4500		85.2	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 4000		86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3500		87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 3000		89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 2500		91.0	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 2000		94.2	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1800		95.5	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		95.5	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		95.5	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		95.5	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 900		95.5	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 800		95.5	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		95.5	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		96.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		96.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		96.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		96.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		96.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		96.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		96.1	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 20000		74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 18000		74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 16000		74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 14000		74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 12000		74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 10000		79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 9000		81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 8000		82.6	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 7000		84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 6000		86.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 5000		86.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4500		86.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000		91.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 3500		91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 3000		92.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 2500		93.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 2000		93.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800		94.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 1500		96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		96.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) OCT (MONTH)

ALL (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		65.5	68.2	68.5	68.6	68.6	68.8	68.8	68.8	69.1	69.1	69.1	69.1	69.2	69.3	69.3
≥ 20000		71.9	74.7	75.0	75.2	75.2	75.3	75.3	75.3	75.7	75.7	75.7	75.7	75.7	75.8	75.8
≥ 18000		72.3	75.0	75.4	75.6	75.6	75.7	75.7	75.7	76.1	76.1	76.1	76.1	76.1	76.2	76.2
≥ 16000		72.3	75.0	75.4	75.6	75.6	75.7	75.7	75.7	76.1	76.1	76.1	76.1	76.1	76.2	76.2
≥ 14000		72.3	75.1	75.5	75.7	75.7	75.8	75.8	75.8	76.1	76.1	76.1	76.1	76.2	76.3	76.3
≥ 12000		72.7	75.4	75.8	76.0	76.0	76.1	76.1	76.1	76.5	76.5	76.5	76.5	76.5	76.6	76.6
≥ 10000		75.4	78.2	78.6	78.7	78.7	78.9	78.9	78.9	79.2	79.2	79.2	79.2	79.3	79.4	79.4
≥ 9000		76.9	79.7	80.1	80.2	80.2	80.4	80.5	80.5	80.8	80.8	80.8	80.8	80.9	81.0	81.1
≥ 8000		79.1	81.9	82.3	82.5	82.5	82.7	82.7	82.7	83.1	83.1	83.1	83.1	83.2	83.2	83.3
≥ 7000		81.5	84.4	84.8	85.0	85.0	85.2	85.2	85.2	85.6	85.6	85.6	85.6	85.7	85.7	85.8
≥ 6000		82.4	85.4	85.8	86.0	86.0	86.1	86.2	86.2	86.5	86.5	86.5	86.5	86.6	86.7	86.8
≥ 5000		83.1	86.1	86.5	86.6	86.6	86.8	86.9	86.9	87.2	87.2	87.2	87.2	87.3	87.3	87.4
≥ 4500		83.4	86.4	86.8	86.9	86.9	87.1	87.2	87.2	87.5	87.5	87.5	87.5	87.6	87.7	87.7
≥ 4000		84.8	87.8	88.2	88.5	88.5	88.7	88.8	88.8	89.1	89.1	89.1	89.1	89.2	89.3	89.4
≥ 3500		85.6	88.6	89.0	89.2	89.2	89.4	89.5	89.5	89.8	89.8	89.8	89.8	89.9	90.0	90.1
≥ 3000		87.6	90.8	91.2	91.5	91.5	91.7	91.8	91.8	92.1	92.1	92.1	92.1	92.2	92.3	92.3
≥ 2500		89.5	92.8	93.2	93.6	93.6	93.8	93.9	93.9	94.2	94.2	94.2	94.2	94.3	94.4	94.4
≥ 2000		90.8	94.1	94.6	94.9	94.9	95.2	95.2	95.2	95.6	95.6	95.6	95.6	95.7	95.7	95.8
≥ 1800		91.3	94.6	95.1	95.4	95.4	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.2	96.3
≥ 1500		92.4	95.8	96.3	96.6	96.6	96.9	96.9	96.9	97.3	97.3	97.3	97.3	97.3	97.4	97.5
≥ 1200		92.7	96.4	96.9	97.3	97.3	97.6	97.7	97.7	98.0	98.0	98.0	98.0	98.1	98.2	98.2
≥ 1000		93.0	96.9	97.5	97.8	97.9	98.2	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.7	98.9
≥ 900		93.0	96.9	97.5	97.8	97.9	98.2	98.2	98.2	98.6	98.6	98.6	98.6	98.6	98.7	98.9
≥ 800		93.1	97.1	97.7	98.1	98.2	98.5	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.1	99.3
≥ 700		93.3	97.4	98.2	98.5	98.6	98.9	99.0	99.0	99.4	99.4	99.4	99.4	99.4	99.5	99.7
≥ 600		93.4	97.5	98.2	98.6	98.6	99.0	99.0	99.0	99.4	99.4	99.4	99.4	99.5	99.6	99.8
≥ 500		93.5	97.6	98.3	98.7	98.8	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.8	100.0
≥ 400		93.5	97.6	98.3	98.7	98.8	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.8	100.0
≥ 300		93.5	97.6	98.3	98.7	98.8	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.8	100.0
≥ 200		93.5	97.6	98.3	98.7	98.8	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.8	100.0
≥ 100		93.5	97.6	98.3	98.7	98.8	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.8	100.0
0		93.5	97.6	98.3	98.7	98.8	99.1	99.2	99.2	99.6	99.6	99.6	99.6	99.7	99.8	100.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH) 01 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		64.7	68.0	70.0	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3
≥ 20000		69.3	72.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0
≥ 18000		69.3	72.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0
≥ 16000		69.3	72.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0
≥ 14000		69.3	72.7	74.7	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0
≥ 12000		70.0	73.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10000		72.7	76.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3
≥ 9000		74.0	77.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 8000		77.3	80.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0
≥ 7000		78.0	81.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7
≥ 6000		78.0	81.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7
≥ 5000		81.3	84.7	86.7	87.3	87.3	87.3	87.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4500		82.7	86.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4000		84.0	87.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3500		86.0	89.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3000		86.7	90.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2500		91.3	94.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 2000		91.3	94.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1800		92.0	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1500		92.7	96.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1200		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 1000		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 900		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 800		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		92.7	96.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH) 04 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		63.3	68.7	71.3	72.0	72.0	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 20000		66.0	71.3	74.0	74.7	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 18000		66.0	71.3	74.0	74.7	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 16000		66.0	71.3	74.0	74.7	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 14000		66.0	71.3	74.0	74.7	74.7	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 12000		66.7	72.0	74.7	75.3	75.3	76.0	76.0	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 10000		67.3	72.7	75.3	76.0	76.0	76.7	76.7	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 9000		68.7	74.0	76.7	77.3	77.3	78.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 8000		74.0	79.3	82.0	82.7	82.7	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 7000		75.3	80.7	83.3	84.0	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 6000		75.3	80.7	83.3	84.0	84.0	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 5000		79.3	84.7	87.3	88.0	88.0	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4500		79.3	84.7	87.3	88.0	88.0	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 4000		80.0	85.3	88.0	88.7	88.7	89.3	89.3	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 3500		81.3	86.7	89.3	90.0	90.0	90.7	90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 3000		83.3	88.7	91.3	92.0	92.0	92.7	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2500		84.7	90.0	93.3	94.0	94.0	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 2000		86.0	91.3	94.7	95.3	95.3	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1800		86.0	92.0	95.3	96.0	96.0	96.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500		87.3	93.3	96.7	97.3	97.3	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		87.3	93.3	96.7	97.3	97.3	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		87.3	93.3	96.7	97.3	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		87.3	93.3	96.7	97.3	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		87.3	93.3	96.7	97.3	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		87.3	93.3	96.7	97.3	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		87.3	93.3	96.7	97.3	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		87.3	94.0	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		87.3	94.0	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		87.3	94.0	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		87.3	94.0	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		87.3	94.0	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		87.3	94.0	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | NOV (MONTH) | 07 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.7	68.7	69.3	71.3	71.3	71.3	72.0	72.0	72.0	72.0	72.0	72.7	72.7	72.7	72.7
≥ 20000		64.0	70.0	70.7	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.0	74.0
≥ 18000		64.0	70.0	70.7	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.0	74.0
≥ 16000		64.0	70.0	70.7	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.0	74.0
≥ 14000		64.0	70.0	70.7	72.7	72.7	72.7	73.3	73.3	73.3	73.3	73.3	74.0	74.0	74.0	74.0
≥ 12000		64.7	70.7	71.3	73.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 10000		64.7	70.7	71.3	73.3	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.7	74.7	74.7	74.7
≥ 9000		66.0	72.0	72.7	74.7	74.7	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0
≥ 8000		70.0	76.0	76.7	78.7	78.7	78.7	79.3	79.3	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 7000		72.0	78.7	79.3	81.3	81.3	81.3	82.0	82.0	82.7	82.7	82.7	83.3	83.3	83.3	83.3
≥ 6000		72.0	78.7	79.3	81.3	81.3	81.3	82.0	82.0	82.7	82.7	82.7	83.3	83.3	83.3	83.3
≥ 5000		73.3	80.0	80.7	82.7	82.7	82.7	83.3	83.3	84.0	84.0	84.0	84.7	84.7	84.7	84.7
≥ 4500		74.7	81.3	82.0	84.0	84.0	84.0	84.7	84.7	85.3	85.3	85.3	86.0	86.0	86.0	86.0
≥ 4000		75.3	82.0	82.7	84.7	84.7	84.7	85.3	85.3	86.0	86.0	86.0	86.7	86.7	86.7	86.7
≥ 3500		76.0	82.7	83.3	85.3	85.3	85.3	86.0	86.0	86.7	86.7	86.7	87.3	87.3	87.3	87.3
≥ 3000		78.0	84.7	85.3	87.3	87.3	87.3	88.0	88.0	88.7	88.7	88.7	89.3	89.3	89.3	89.3
≥ 2500		81.3	88.0	88.7	90.7	90.7	90.7	91.3	91.3	92.0	92.0	92.0	92.7	92.7	92.7	92.7
≥ 2000		82.0	90.0	90.7	92.7	92.7	92.7	93.3	93.3	94.0	94.0	94.0	94.7	94.7	94.7	94.7
≥ 1800		82.0	90.0	90.7	92.7	92.7	92.7	93.3	93.3	94.0	94.0	94.0	94.7	94.7	94.7	94.7
≥ 1500		82.0	90.7	91.3	93.3	93.3	93.3	94.0	94.0	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 1200		82.0	90.7	91.3	93.3	93.3	93.3	94.0	94.0	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 1000		82.0	90.7	92.7	94.7	94.7	94.7	95.3	95.3	96.0	96.0	96.0	96.7	96.7	96.7	96.7
≥ 900		82.0	90.7	92.7	94.7	94.7	94.7	95.3	95.3	96.0	96.0	96.0	96.7	96.7	96.7	96.7
≥ 800		82.7	91.3	93.3	95.3	95.3	95.3	96.0	96.0	97.3	97.3	97.3	98.0	98.0	98.0	98.0
≥ 700		82.7	92.0	94.7	96.7	96.7	96.7	97.3	97.3	98.7	98.7	98.7	99.3	99.3	99.3	99.3
≥ 600		83.3	92.7	95.3	97.3	97.3	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 500		83.3	92.7	95.3	97.3	97.3	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 400		83.3	92.7	95.3	97.3	97.3	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 300		83.3	92.7	95.3	97.3	97.3	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 200		83.3	92.7	95.3	97.3	97.3	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 100		83.3	92.7	95.3	97.3	97.3	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0
0		83.3	92.7	95.3	97.3	97.3	97.3	98.0	98.0	99.3	99.3	99.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | NOV (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

10 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		52.0	59.3	60.7	61.3	61.3	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 20000		58.0	65.3	66.7	67.3	67.3	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 18000		58.7	66.0	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 16000		58.7	66.0	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 14000		58.7	66.0	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 12000		58.7	66.0	67.3	68.0	68.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 10000		60.7	68.0	69.3	70.0	70.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 9000		61.3	68.7	70.0	70.7	70.7	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 8000		64.7	72.7	74.0	74.7	74.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 7000		66.0	74.0	75.3	76.0	76.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000		66.0	74.0	75.3	76.0	76.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 5000		68.7	76.7	78.0	78.7	78.7	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 4500		69.3	77.3	78.7	79.3	79.3	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000		76.0	84.0	85.3	86.0	86.0	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 3500		76.7	84.7	86.0	86.7	86.7	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000		78.0	86.0	87.3	88.0	88.0	89.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
≥ 2500		81.3	89.3	90.7	91.3	91.3	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	94.0
≥ 2000		82.0	90.7	92.0	92.7	92.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	95.3
≥ 1800		82.7	91.3	92.7	93.3	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	96.0
≥ 1500		82.7	91.3	93.3	94.0	94.0	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.7
≥ 1200		82.7	92.0	94.0	94.7	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	97.3
≥ 1000		84.0	93.3	95.3	96.0	96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
≥ 900		84.0	93.3	95.3	96.0	96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
≥ 800		84.0	93.3	95.3	96.0	96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.7
≥ 700		84.0	93.3	95.3	96.0	96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3
≥ 600		84.0	93.3	95.3	96.0	96.0	97.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	99.3
≥ 500		84.0	94.0	96.0	96.7	96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 400		84.0	94.0	96.0	96.7	96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 300		84.0	94.0	96.0	96.7	96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 200		84.0	94.0	96.0	96.7	96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
≥ 100		84.0	94.0	96.0	96.7	96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0
0		84.0	94.0	96.0	96.7	96.7	98.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) | ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | NOV (MONTH)

13 (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1⅓	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 20000		73.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 18000		73.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 16000		73.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 14000		73.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 12000		74.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 10000		75.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 9000		75.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 8000		78.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 7000		82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 6000		82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 5000		82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4500		82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000		82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3500		84.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000		89.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2500		90.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2000		91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800		91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500		92.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1200		92.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		93.3	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		93.3	96.7	97.3	98.0	98.0	98.0	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 600		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 500		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 200		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0
≥ 100		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0
0		94.0	97.3	98.0	98.7	98.7	98.7	98.7	98.7	99.3	99.3	99.3	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 20000		72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 18000		72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 16000		72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 14000		74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 12000		74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 10000		74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 9000		75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 8000		78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 7000		80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 6000		81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 5000		82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500		83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000		86.0	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 3500		88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000		90.0	90.7	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2500		92.0	92.7	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 2000		92.7	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1800		92.7	93.3	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1500		94.0	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200		94.0	95.3	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000		94.7	96.0	96.0	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 900		94.7	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		94.7	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		94.7	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		94.7	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		94.7	96.7	96.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 400		94.7	96.7	96.7	98.0	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 300		95.3	97.3	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		95.3	97.3	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		95.3	97.3	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		95.3	97.3	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) KOTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

19 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.7	64.7	64.7	65.3	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 20000		72.0	74.7	74.7	75.3	75.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 18000		72.0	74.7	74.7	75.3	75.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 16000		72.0	74.7	74.7	75.3	75.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 14000		72.7	75.3	75.3	76.0	76.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 12000		73.3	76.0	76.0	76.7	76.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 10000		74.7	77.3	77.3	78.0	78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 9000		74.7	77.3	77.3	78.0	78.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 8000		77.3	80.0	80.0	80.7	80.7	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 7000		78.7	82.0	82.0	82.7	82.7	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 6000		79.3	82.7	82.7	83.3	83.3	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 5000		80.0	83.3	83.3	84.0	84.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 4500		80.0	83.3	83.3	84.0	84.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 4000		82.0	85.3	85.3	86.0	86.0	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 3500		84.0	87.3	87.3	88.0	88.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 3000		86.7	90.0	90.0	90.7	90.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2500		90.7	94.0	94.0	94.7	94.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2000		90.7	94.0	94.0	94.7	94.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1800		90.7	94.0	94.0	94.7	94.7	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1500		92.7	96.0	96.0	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		92.7	96.0	96.0	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		92.7	96.0	96.0	96.7	96.7	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		92.7	96.7	96.7	97.3	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		92.7	96.7	96.7	97.3	97.3	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 700		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		92.7	96.7	96.7	98.0	98.0	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH)

22 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		68.0	71.3	72.0	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 20000		69.3	72.7	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 18000		69.3	72.7	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 16000		69.3	72.7	73.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 14000		70.0	73.3	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 12000		70.0	73.3	74.0	74.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 10000		74.0	77.3	78.0	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 9000		74.7	78.0	78.7	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 8000		79.3	82.7	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 7000		80.0	83.3	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 6000		80.0	83.3	84.0	84.0	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 5000		83.3	86.7	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4500		83.3	86.7	87.3	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 4000		86.0	89.3	90.0	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 3500		88.0	91.3	92.0	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 3000		90.0	93.3	94.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 2500		91.3	94.7	95.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 2000		92.0	95.3	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1800		92.0	95.3	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1500		93.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1200		94.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 1000		94.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 900		94.0	97.3	98.7	98.7	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
≥ 800		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 700		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 600		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 500		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		94.0	97.3	98.7	99.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 150

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) NOV (MONTH) ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		62.4	66.2	67.1	67.7	67.8	68.0	68.3	68.3	68.3	68.4	68.4	68.5	68.5	68.5	68.5
≥ 20000		68.0	71.8	72.8	73.3	73.4	73.7	73.9	73.9	74.0	74.1	74.1	74.2	74.2	74.2	74.2
≥ 18000		68.2	72.0	72.9	73.5	73.6	73.8	74.1	74.1	74.2	74.3	74.3	74.3	74.3	74.3	74.3
≥ 16000		68.2	72.0	72.9	73.5	73.6	73.8	74.1	74.1	74.2	74.3	74.3	74.3	74.3	74.3	74.3
≥ 14000		68.5	72.3	73.3	73.8	73.9	74.2	74.4	74.4	74.5	74.6	74.6	74.7	74.7	74.7	74.7
≥ 12000		68.9	72.8	73.7	74.3	74.3	74.6	74.8	74.8	74.9	75.0	75.0	75.1	75.1	75.1	75.1
≥ 10000		70.4	74.3	75.2	75.8	75.8	76.1	76.3	76.3	76.4	76.5	76.5	76.6	76.6	76.6	76.6
≥ 9000		71.3	75.1	76.0	76.6	76.7	76.9	77.2	77.2	77.3	77.3	77.3	77.4	77.4	77.4	77.4
≥ 8000		74.9	78.8	79.8	80.3	80.4	80.8	81.0	81.0	81.2	81.3	81.3	81.3	81.3	81.3	81.3
≥ 7000		76.6	80.7	81.6	82.2	82.3	82.6	82.8	82.8	83.0	83.1	83.1	83.2	83.2	83.2	83.2
≥ 6000		76.8	80.8	81.8	82.3	82.4	82.8	83.0	83.0	83.2	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000		78.8	82.9	83.8	84.4	84.5	84.8	85.1	85.1	85.3	85.3	85.3	85.4	85.4	85.4	85.4
≥ 4500		79.3	83.4	84.3	84.9	85.0	85.3	85.6	85.6	85.8	85.8	85.8	85.9	85.9	85.9	85.9
≥ 4000		81.5	85.6	86.5	87.1	87.2	87.5	87.8	87.8	87.9	88.0	88.0	88.1	88.1	88.1	88.1
≥ 3500		83.0	87.1	88.0	88.6	88.7	89.0	89.3	89.3	89.4	89.5	89.5	89.6	89.6	89.6	89.6
≥ 3000		85.3	89.3	90.3	90.9	91.0	91.3	91.6	91.6	91.8	91.8	91.8	91.9	91.9	91.9	91.9
≥ 2500		87.8	91.9	92.9	93.6	93.7	94.0	94.3	94.3	94.4	94.5	94.5	94.6	94.6	94.6	94.7
≥ 2000		88.5	92.8	93.9	94.6	94.7	95.0	95.3	95.3	95.4	95.5	95.5	95.6	95.6	95.6	95.7
≥ 1800		88.7	93.1	94.2	94.8	94.9	95.3	95.5	95.5	95.7	95.8	95.8	95.8	95.8	95.8	95.9
≥ 1500		89.6	94.3	95.5	96.2	96.3	96.7	96.9	96.9	97.1	97.2	97.2	97.3	97.3	97.3	97.3
≥ 1200		89.8	94.5	95.8	96.7	96.8	97.3	97.5	97.5	97.7	97.8	97.8	97.8	97.8	97.8	97.9
≥ 1000		90.1	94.9	96.4	97.3	97.4	97.9	98.2	98.2	98.4	98.5	98.5	98.6	98.6	98.6	98.7
≥ 900		90.1	95.1	96.6	97.4	97.6	98.1	98.3	98.3	98.6	98.7	98.7	98.8	98.8	98.8	98.8
≥ 800		90.3	95.3	96.8	97.7	97.8	98.3	98.6	98.6	98.9	99.0	99.0	99.1	99.1	99.1	99.2
≥ 700		90.3	95.3	96.9	97.9	98.1	98.6	98.9	98.9	99.3	99.3	99.3	99.4	99.4	99.4	99.5
≥ 600		90.3	95.4	97.0	98.0	98.2	98.7	99.0	99.0	99.3	99.4	99.4	99.5	99.5	99.5	99.6
≥ 500		90.3	95.6	97.2	98.2	98.3	98.9	99.3	99.3	99.6	99.7	99.7	99.8	99.8	99.8	99.8
≥ 400		90.3	95.6	97.2	98.2	98.3	98.9	99.3	99.3	99.6	99.7	99.7	99.8	99.8	99.8	99.8
≥ 300		90.4	95.7	97.3	98.3	98.4	99.0	99.3	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.9
≥ 200		90.4	95.7	97.3	98.3	98.4	99.0	99.3	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0
≥ 100		90.4	95.7	97.3	98.3	98.4	99.0	99.3	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0
≥ 0		90.4	95.7	97.3	98.3	98.4	99.0	99.3	99.3	99.7	99.8	99.8	99.9	99.9	99.9	100.0

TOTAL NUMBER OF OBSERVATIONS 1200

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH) 01 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		61.3	62.6	64.5	65.2	65.2	65.2	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 20000		62.6	64.5	66.5	67.1	67.1	67.1	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 18000		62.6	64.5	66.5	67.1	67.1	67.1	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 16000		62.6	64.5	66.5	67.1	67.1	67.1	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 14000		62.6	64.5	66.5	67.1	67.1	67.1	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 12000		62.6	64.5	66.5	67.1	67.1	67.1	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 10000		64.5	66.5	68.4	69.0	69.0	69.0	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 9000		64.5	66.5	68.4	69.0	69.0	69.0	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000		67.7	69.7	71.6	72.3	72.3	72.3	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 7000		70.3	72.3	74.2	74.8	74.8	74.8	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 6000		70.3	72.3	74.2	74.8	74.8	74.8	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 5000		74.2	76.1	78.1	78.7	78.7	78.7	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500		75.5	77.4	79.4	80.0	80.0	80.0	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000		79.4	81.3	83.2	83.9	83.9	83.9	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3500		79.4	81.3	83.2	83.9	83.9	83.9	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 3000		81.9	83.9	85.8	86.5	86.5	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2500		84.5	86.5	88.4	89.0	89.0	89.0	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000		89.7	92.3	94.2	94.8	94.8	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1800		89.7	92.3	94.2	94.8	94.8	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1500		89.7	92.3	94.2	94.8	94.8	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 1200		91.6	94.2	96.1	96.8	96.8	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1000		91.6	94.2	96.8	97.4	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		91.6	94.2	96.8	97.4	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		91.6	94.2	96.8	97.4	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		91.6	94.8	97.4	98.1	98.1	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH) 04 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		53.6	57.4	58.7	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.7	60.7	60.7	60.7
≥ 20000		54.8	58.7	60.0	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9
≥ 18000		54.8	58.7	60.0	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9
≥ 16000		54.8	58.7	60.0	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9
≥ 14000		54.8	58.7	60.0	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9
≥ 12000		56.1	60.0	61.3	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	63.2	63.2	63.2	63.2
≥ 10000		59.4	63.2	64.5	65.2	65.2	65.2	65.2	65.2	65.8	65.8	65.8	66.5	66.5	66.5	66.5
≥ 9000		60.0	63.9	65.2	65.8	65.8	65.8	65.8	65.8	66.5	66.5	66.5	67.1	67.1	67.1	67.1
≥ 8000		63.9	67.7	69.0	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	71.0	71.0	71.0	71.0
≥ 7000		67.1	71.0	72.3	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	74.2	74.2	74.2	74.2
≥ 6000		67.1	71.0	72.3	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	74.2	74.2	74.2	74.2
≥ 5000		70.3	74.2	75.5	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	77.4	77.4	77.4	77.4
≥ 4500		71.6	75.5	76.8	77.4	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.7	78.7	78.7	78.7
≥ 4000		74.8	79.4	80.7	81.3	81.3	81.3	81.3	81.3	81.9	81.9	81.9	82.6	82.6	82.6	82.6
≥ 3500		75.5	80.0	81.3	81.9	81.9	81.9	81.9	81.9	82.6	82.6	82.6	83.2	83.2	83.2	83.2
≥ 3000		77.4	82.6	84.5	85.2	85.2	85.2	85.2	85.2	85.8	85.8	85.8	86.5	86.5	86.5	86.5
≥ 2500		80.0	85.2	87.1	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	89.0	89.0	89.0	89.0
≥ 2000		82.6	88.4	90.3	91.6	91.6	92.3	92.3	92.3	92.9	92.9	92.9	93.6	93.6	93.6	93.6
≥ 1800		82.6	88.4	90.3	91.6	91.6	92.3	92.9	92.9	93.6	93.6	93.6	94.2	94.2	94.2	94.2
≥ 1500		83.9	89.7	92.3	93.6	93.6	94.2	94.8	94.8	95.5	95.5	95.5	96.1	96.1	96.1	96.1
≥ 1200		84.5	90.3	92.9	94.2	94.2	94.8	95.5	95.5	96.1	96.1	96.1	96.8	96.8	96.8	96.8
≥ 1000		84.5	90.3	92.9	94.2	94.2	94.8	95.5	95.5	96.1	96.1	96.1	96.8	96.8	96.8	96.8
≥ 900		84.5	90.3	92.9	94.2	94.2	94.8	95.5	95.5	96.1	96.1	96.1	96.8	96.8	96.8	96.8
≥ 800		85.2	91.0	93.6	94.8	94.8	95.5	96.1	96.1	96.8	96.8	96.8	97.4	97.4	97.4	97.4
≥ 700		85.2	91.0	93.6	95.5	95.5	96.1	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.1	98.1
≥ 600		85.8	91.6	94.2	96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7
≥ 500		85.8	91.6	94.2	96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7
≥ 400		85.8	91.6	94.2	96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7
≥ 300		85.8	91.6	94.2	96.1	96.1	96.8	97.4	97.4	98.1	98.1	98.1	98.7	98.7	98.7	98.7
≥ 200		85.8	91.6	94.2	96.1	96.1	96.8	97.4	97.4	98.7	98.7	98.7	99.4	99.4	99.4	99.4
≥ 100		85.8	91.6	94.2	96.1	96.1	96.8	97.4	97.4	98.7	98.7	98.7	99.4	99.4	99.4	99.4
0		85.8	91.6	94.2	96.1	96.1	96.8	97.4	97.4	98.7	98.7	98.7	99.4	99.4	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH) 07 (HOURS (L S T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		50.3	52.9	53.6	54.2	54.8	54.8	54.8	54.8	54.8	55.5	55.5	55.5	55.5	55.5	56.1
≥ 20000		54.8	57.4	58.1	58.7	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.7
≥ 18000		54.8	57.4	58.1	58.7	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.7
≥ 16000		54.8	57.4	58.1	58.7	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.7
≥ 14000		54.8	57.4	58.1	58.7	59.4	59.4	59.4	59.4	59.4	60.0	60.0	60.0	60.0	60.0	60.7
≥ 12000		55.5	58.1	58.7	59.4	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7	61.3
≥ 10000		56.8	59.4	60.0	60.7	61.3	61.3	61.3	61.3	61.3	61.9	61.9	61.9	61.9	61.9	62.6
≥ 9000		58.1	60.7	61.3	61.9	62.6	62.6	62.6	62.6	62.6	63.2	63.2	63.2	63.2	63.2	63.9
≥ 8000		62.6	65.2	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.7	67.7	67.7	67.7	67.7	68.4
≥ 7000		65.8	68.4	69.0	69.7	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.6
≥ 6000		67.1	69.7	70.3	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.9
≥ 5000		69.7	72.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	75.5
≥ 4500		71.6	74.2	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.8	76.8	76.8	76.8	76.8	77.4
≥ 4000		73.6	76.1	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	79.4
≥ 3500		76.1	78.7	79.4	80.0	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.9
≥ 3000		78.1	80.7	81.9	82.6	83.2	83.2	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9	84.5
≥ 2500		81.3	83.9	85.2	85.8	86.5	86.5	86.5	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.7
≥ 2000		84.5	88.4	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	92.3
≥ 1800		84.5	88.4	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.6	91.6	91.6	91.6	91.6	92.3
≥ 1500		86.5	91.6	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	95.5
≥ 1200		86.5	91.6	92.9	93.6	94.2	94.2	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	95.5
≥ 1000		86.5	91.6	92.9	93.6	94.2	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	96.1
≥ 900		86.5	92.3	93.6	94.2	94.8	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.8
≥ 800		87.1	92.9	94.2	95.5	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4	97.4	98.1
≥ 700		87.1	92.9	94.2	95.5	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.7
≥ 600		87.1	92.9	94.2	95.5	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.7
≥ 500		87.1	92.9	94.2	95.5	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.7
≥ 400		87.1	92.9	94.2	95.5	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.7
≥ 300		87.1	92.9	94.2	95.5	96.1	96.8	96.8	96.8	96.8	97.4	97.4	97.4	98.1	98.1	98.7
≥ 200		87.7	93.6	94.8	96.1	96.8	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.7	98.7	99.4
≥ 100		87.7	93.6	94.8	96.1	96.8	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.7	98.7	99.4
≥ 0		87.7	93.6	94.8	96.1	96.8	97.4	97.4	97.4	97.4	98.1	98.1	98.1	98.7	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

10 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		37.4	43.9	44.5	44.5	45.2	45.2	46.5	46.5	46.5	46.5	46.5	47.1	47.1	47.1	47.1
≥ 20000		45.2	52.3	52.9	52.9	53.6	53.6	54.8	55.5	55.5	55.5	55.5	56.1	56.1	56.1	56.1
≥ 18000		45.2	52.3	52.9	52.9	53.6	53.6	54.8	55.5	55.5	55.5	55.5	56.1	56.1	56.1	56.1
≥ 16000		45.2	52.3	52.9	52.9	53.6	53.6	54.8	55.5	55.5	55.5	55.5	56.1	56.1	56.1	56.1
≥ 14000		45.2	52.3	52.9	52.9	53.6	53.6	54.8	55.5	55.5	55.5	55.5	56.1	56.1	56.1	56.1
≥ 12000		45.8	52.9	54.2	54.2	54.8	54.8	56.1	56.8	56.8	56.8	56.8	57.4	57.4	57.4	57.4
≥ 10000		47.7	54.8	56.1	56.1	56.8	56.8	58.1	58.7	58.7	58.7	58.7	59.4	60.0	60.0	60.0
≥ 9000		49.0	56.1	57.4	57.4	58.1	58.1	59.4	60.0	60.0	60.0	60.0	60.7	61.3	61.3	61.3
≥ 8000		52.3	59.4	60.7	60.7	61.3	61.3	62.6	63.2	63.2	63.2	63.2	63.9	64.5	64.5	64.5
≥ 7000		55.5	62.6	63.9	63.9	64.5	64.5	65.8	66.5	66.5	66.5	66.5	67.1	67.7	67.7	67.7
≥ 6000		58.1	65.2	67.1	67.1	67.7	67.7	69.0	69.7	69.7	69.7	69.7	70.3	71.0	71.0	71.0
≥ 5000		58.7	65.8	68.4	68.4	69.0	69.0	70.3	71.0	71.0	71.0	71.0	71.6	72.3	72.3	72.3
≥ 4500		59.4	66.5	69.0	69.0	69.7	69.7	71.0	71.6	71.6	71.6	71.6	72.3	72.9	72.9	72.9
≥ 4000		63.2	71.6	74.8	74.8	75.5	75.5	76.8	77.4	78.1	78.1	78.1	78.7	79.4	79.4	79.4
≥ 3500		65.8	74.2	77.4	77.4	78.1	78.1	79.4	80.0	80.7	80.7	80.7	81.3	81.9	81.9	81.9
≥ 3000		70.3	79.4	82.6	83.2	83.9	83.9	85.2	85.8	86.5	86.5	86.5	87.1	87.7	87.7	87.7
≥ 2500		72.9	81.9	85.2	85.8	86.5	86.5	87.7	88.4	89.0	89.0	89.0	89.7	90.3	90.3	90.3
≥ 2000		73.6	82.6	85.8	86.5	87.1	87.1	88.4	89.0	89.7	89.7	89.7	90.3	91.0	91.0	91.0
≥ 1800		73.6	82.6	85.8	86.5	87.1	87.1	88.4	89.0	89.7	89.7	89.7	90.3	91.0	91.0	91.0
≥ 1500		75.5	84.5	87.7	88.4	89.0	89.0	90.3	91.0	91.6	91.6	91.6	92.3	92.9	92.9	92.9
≥ 1200		76.1	85.2	88.4	89.7	90.3	90.3	91.6	92.3	92.9	92.9	92.9	93.6	94.2	94.2	94.2
≥ 1000		76.8	85.8	89.0	90.3	91.0	91.6	92.9	93.6	94.2	94.2	94.2	94.8	95.5	95.5	96.1
≥ 900		76.8	85.8	89.0	90.3	91.0	91.6	92.9	93.6	94.2	94.2	94.2	94.8	95.5	95.5	96.1
≥ 800		76.8	85.8	89.0	90.3	91.0	91.6	92.9	93.6	94.2	94.2	94.2	94.8	95.5	95.5	96.1
≥ 700		76.8	85.8	89.0	90.3	91.0	91.6	92.9	93.6	94.2	94.2	94.2	94.8	95.5	95.5	96.1
≥ 600		76.8	85.8	89.0	90.3	91.0	91.6	92.9	93.6	94.8	94.8	94.8	95.5	96.1	96.1	96.8
≥ 500		76.8	86.5	90.3	91.6	92.3	92.9	94.2	94.8	96.1	96.1	96.1	96.8	97.4	97.4	98.1
≥ 400		76.8	87.1	91.0	92.3	92.9	93.6	94.8	95.5	96.8	96.8	96.8	97.4	98.1	98.1	98.7
≥ 300		76.8	87.1	91.0	92.3	92.9	93.6	94.8	95.5	96.8	96.8	96.8	97.4	98.1	98.1	98.7
≥ 200		76.8	87.1	91.0	92.3	92.9	93.6	94.8	95.5	97.4	97.4	97.4	98.1	98.7	98.7	99.4
≥ 100		76.8	87.1	91.0	92.3	92.9	93.6	94.8	95.5	97.4	97.4	97.4	98.1	98.7	98.7	100.0
0		76.8	87.1	91.0	92.3	92.9	93.6	94.8	95.5	97.4	97.4	97.4	98.1	98.7	98.7	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

13 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		47.7	48.4	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 20000		54.2	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 18000		54.2	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 16000		54.2	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 14000		54.2	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 12000		54.8	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 10000		57.4	58.1	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 9000		58.1	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 8000		63.9	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 7000		69.0	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 6000		69.7	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000		71.0	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 4500		72.3	73.6	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000		74.8	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 3500		77.4	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3000		81.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500		84.5	86.5	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2000		86.5	88.4	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1800		86.5	88.4	89.0	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1500		87.7	89.7	90.3	91.0	91.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200		88.4	90.3	91.6	92.9	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000		89.7	91.6	92.9	94.2	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 900		89.7	91.6	92.9	94.2	94.2	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 800		90.3	92.3	93.6	94.8	94.8	96.1	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		90.3	92.3	93.6	94.8	94.8	96.1	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600		90.3	92.3	93.6	94.8	94.8	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		90.3	92.3	93.6	95.5	95.5	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		90.3	92.3	93.6	95.5	95.5	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		90.3	92.3	93.6	95.5	95.5	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		90.3	92.3	93.6	95.5	95.5	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		90.3	92.3	93.6	95.5	95.5	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		90.3	92.3	93.6	95.5	95.5	98.1	98.7	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

16 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		46.5	46.5	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 20000		56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 18000		56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 16000		56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 14000		56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 12000		56.8	56.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000		58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 9000		60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 8000		65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 7000		67.7	67.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 6000		67.7	67.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 5000		68.4	68.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 4500		69.7	69.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4000		74.2	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3500		75.5	76.1	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 3000		79.4	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500		82.6	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2000		86.5	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800		87.1	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500		87.7	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1200		90.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000		92.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 900		92.3	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 800		93.6	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700		94.2	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 600		94.8	97.4	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		94.8	97.4	98.7	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		95.5	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		95.5	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		95.5	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		95.5	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		95.5	98.1	99.4	99.4	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

19 (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		43.9	45.2	45.8	45.8	45.8	45.8	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5
≥ 20000		50.3	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 18000		50.3	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 16000		50.3	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 14000		50.3	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 12000		50.3	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 10000		51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 9000		51.6	52.9	53.6	53.6	53.6	53.6	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 8000		58.7	60.0	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 7000		61.9	63.2	64.5	64.5	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 6000		61.9	63.2	64.5	64.5	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 5000		63.2	64.5	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 4500		63.2	64.5	66.5	66.5	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 4000		67.7	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 3500		69.7	71.0	72.9	72.9	72.9	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 3000		77.4	78.7	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500		80.0	81.9	83.9	84.5	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2000		81.9	83.9	85.8	86.5	86.5	86.5	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1800		82.6	85.2	87.1	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1500		89.0	91.6	93.6	94.2	94.2	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1200		89.7	92.3	94.2	94.8	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1000		91.0	93.6	96.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		91.0	93.6	96.1	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 700		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		91.6	94.2	96.8	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		91.6	94.2	96.8	98.7	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		91.6	94.2	96.8	98.7	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0		91.6	94.2	96.8	98.7	99.4	99.4	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) DEC (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

22 (HOURS (L S T))

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		58.1	58.1	58.1	58.7	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000		60.7	60.7	60.7	61.3	61.3	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 18000		61.3	61.3	61.3	61.9	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 16000		61.3	61.3	61.3	61.9	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000		61.3	61.3	61.3	61.9	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 12000		61.3	61.3	61.3	61.9	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000		62.6	62.6	62.6	63.2	63.2	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 9000		63.2	63.2	63.2	63.9	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 8000		67.7	67.7	67.7	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000		71.0	71.0	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 6000		71.0	71.0	71.6	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000		72.9	72.9	73.6	74.2	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500		74.2	74.2	74.8	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 4000		76.8	76.8	77.4	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3500		76.8	76.8	77.4	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3000		79.4	80.0	80.7	81.3	81.3	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2500		81.9	82.6	83.2	83.9	83.9	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2000		86.5	88.4	89.0	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1800		86.5	88.4	89.0	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1500		90.3	92.3	94.2	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200		91.6	93.6	95.5	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		91.6	93.6	95.5	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 900		91.6	93.6	95.5	96.1	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800		91.6	94.2	96.1	96.8	96.8	96.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 700		91.6	94.2	96.8	97.4	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		91.6	94.2	96.8	97.4	97.4	97.4	98.1	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		92.9	95.5	98.1	98.7	98.7	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 400		92.9	95.5	98.1	98.7	98.7	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		92.9	95.5	98.1	98.7	98.7	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		92.9	95.5	98.1	98.7	98.7	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		92.9	95.5	98.1	98.7	98.7	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		92.9	95.5	98.1	98.7	98.7	98.7	99.4	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 73

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

ROTA, SPAIN (STATION NAME) | 73-77 (YEARS) | DEC (MONTH) | ALL (HOURS (L.S.T.))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING		49.8	51.9	52.6	53.0	53.2	53.2	53.5	53.5	53.7	53.8	53.8	54.0	54.0	54.0	54.0
≥ 20000		54.8	57.0	57.7	58.2	58.3	58.3	58.6	58.7	59.0	59.0	59.0	59.2	59.2	59.2	59.3
≥ 18000		54.9	57.1	57.8	58.2	58.4	58.4	58.7	58.8	59.0	59.1	59.1	59.3	59.3	59.3	59.4
≥ 16000		54.9	57.1	57.8	58.2	58.4	58.4	58.7	58.8	59.0	59.1	59.1	59.3	59.3	59.3	59.4
≥ 14000		54.9	57.1	57.8	58.2	58.4	58.4	58.7	58.8	59.0	59.1	59.1	59.3	59.3	59.3	59.4
≥ 12000		55.4	57.6	58.4	58.8	59.0	59.0	59.3	59.4	59.6	59.7	59.7	59.8	59.8	59.8	59.9
≥ 10000		57.3	59.5	60.3	60.7	60.9	60.9	61.2	61.3	61.5	61.6	61.6	61.8	61.9	61.9	61.9
≥ 9000		58.2	60.3	61.1	61.5	61.7	61.7	62.0	62.1	62.3	62.4	62.4	62.6	62.7	62.7	62.7
≥ 8000		62.8	65.0	65.8	66.2	66.4	66.4	66.7	66.8	67.0	67.1	67.1	67.3	67.3	67.3	67.4
≥ 7000		66.1	68.3	69.3	69.7	69.8	69.8	70.2	70.2	70.5	70.6	70.6	70.7	70.8	70.8	70.9
≥ 6000		66.6	68.9	70.0	70.4	70.6	70.6	70.9	71.0	71.2	71.3	71.3	71.5	71.5	71.5	71.6
≥ 5000		68.6	70.8	72.1	72.5	72.7	72.7	73.0	73.1	73.3	73.4	73.4	73.6	73.6	73.6	73.7
≥ 4500		69.7	71.9	73.2	73.6	73.8	73.8	74.1	74.2	74.4	74.5	74.5	74.7	74.8	74.8	74.8
≥ 4000		73.1	75.7	77.0	77.4	77.6	77.6	77.9	78.0	78.3	78.4	78.4	78.6	78.6	78.6	78.7
≥ 3500		74.5	77.1	78.5	78.9	79.0	79.0	79.4	79.4	79.8	79.8	79.8	80.0	80.1	80.1	80.2
≥ 3000		78.2	81.1	82.7	83.2	83.3	83.3	83.6	83.7	84.0	84.1	84.1	84.3	84.4	84.4	84.4
≥ 2500		81.0	84.0	85.6	86.1	86.3	86.3	86.6	86.7	87.0	87.1	87.1	87.3	87.3	87.3	87.4
≥ 2000		84.0	87.4	89.0	89.7	89.8	89.9	90.2	90.3	90.7	90.7	90.7	90.9	91.0	91.0	91.1
≥ 1800		84.1	87.7	89.3	89.9	90.1	90.2	90.6	90.7	91.0	91.1	91.1	91.2	91.3	91.3	91.4
≥ 1500		86.3	90.1	91.9	92.6	92.7	92.9	93.3	93.4	93.7	93.8	93.8	94.0	94.0	94.0	94.1
≥ 1200		87.3	91.2	93.2	94.0	94.1	94.3	94.7	94.8	95.1	95.2	95.2	95.3	95.4	95.4	95.5
≥ 1000		88.0	91.9	94.0	94.9	95.1	95.4	95.9	96.0	96.3	96.4	96.4	96.5	96.6	96.6	96.8
≥ 900		88.0	91.9	94.0	95.0	95.2	95.5	96.0	96.1	96.4	96.5	96.5	96.6	96.7	96.7	96.9
≥ 800		88.5	92.6	94.7	95.7	95.9	96.3	96.8	96.9	97.3	97.4	97.4	97.6	97.7	97.7	97.8
≥ 700		88.6	92.7	94.9	96.1	96.2	96.6	97.1	97.2	97.7	97.7	97.7	97.9	98.1	98.1	98.2
≥ 600		88.7	92.9	95.1	96.2	96.4	96.9	97.4	97.5	98.2	98.2	98.2	98.4	98.6	98.6	98.7
≥ 500		88.9	93.2	95.4	96.6	96.8	97.3	97.8	97.9	98.6	98.7	98.7	98.9	99.0	99.0	99.2
≥ 400		89.0	93.3	95.6	96.8	96.9	97.5	98.0	98.1	98.8	98.9	98.9	99.0	99.2	99.2	99.4
≥ 300		89.0	93.3	95.6	96.8	96.9	97.5	98.0	98.1	98.8	98.9	98.9	99.0	99.2	99.2	99.4
≥ 200		89.0	93.4	95.7	96.9	97.1	97.7	98.2	98.2	99.2	99.3	99.3	99.4	99.6	99.6	99.8
≥ 100		89.0	93.4	95.7	96.9	97.1	97.7	98.2	98.2	99.2	99.3	99.3	99.4	99.6	99.6	99.8
0		89.0	93.4	95.7	96.9	97.1	97.7	98.2	98.2	99.2	99.3	99.3	99.4	99.6	99.6	100.0

TOTAL NUMBER OF OBSERVATIONS 1240

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS) ALL (MONTH) ALL (HOURS (L S T))

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ⅝	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	.0	63.7	67.4	68.6	69.2	69.3	69.4	69.6	69.6	69.7	69.7	69.7	69.8	69.8	69.8	70.0
≥ 20000	.0	68.1	72.1	73.4	74.0	74.0	74.2	74.3	74.3	74.5	74.5	74.5	74.6	74.6	74.6	74.8
≥ 18000	.0	68.3	72.2	73.5	74.1	74.2	74.4	74.5	74.5	74.6	74.7	74.7	74.7	74.8	74.8	75.0
≥ 16000	.0	68.4	72.3	73.6	74.2	74.3	74.4	74.6	74.6	74.7	74.7	74.7	74.8	74.8	74.9	75.0
≥ 14000	.0	68.6	72.5	73.8	74.4	74.5	74.6	74.8	74.8	74.9	74.9	75.0	75.0	75.0	75.1	75.3
≥ 12000	.0	68.9	72.9	74.3	74.8	74.9	75.1	75.2	75.2	75.4	75.4	75.4	75.4	75.5	75.5	75.7
≥ 10000	.0	70.5	74.6	76.0	76.5	76.6	76.8	76.9	76.9	77.1	77.1	77.1	77.2	77.2	77.2	77.4
≥ 9000	.0	71.1	75.2	76.6	77.2	77.2	77.4	77.6	77.6	77.7	77.7	77.7	77.8	77.8	77.9	78.0
≥ 8000	.0	73.8	78.0	79.4	80.0	80.0	80.2	80.4	80.4	80.5	80.5	80.6	80.6	80.7	80.7	80.9
≥ 7000	.0	75.2	79.6	81.0	81.6	81.7	81.9	82.1	82.1	82.2	82.2	82.3	82.3	82.4	82.4	82.6
≥ 6000	.0	75.5	79.9	81.3	81.9	82.0	82.2	82.4	82.4	82.5	82.5	82.6	82.6	82.7	82.7	82.9
≥ 5000	.0	76.4	80.7	82.2	82.9	82.9	83.1	83.3	83.3	83.5	83.5	83.5	83.5	83.6	83.6	83.8
≥ 4500	.0	76.8	81.2	82.7	83.4	83.5	83.7	83.8	83.8	84.0	84.0	84.0	84.1	84.1	84.2	84.3
≥ 4000	.0	78.5	83.0	84.6	85.2	85.3	85.5	85.7	85.7	85.8	85.9	85.9	85.9	86.0	86.0	86.2
≥ 3500	.0	79.5	84.0	85.6	86.3	86.4	86.6	86.7	86.8	86.9	86.9	86.9	87.0	87.0	87.1	87.2
≥ 3000	.0	81.5	86.2	87.8	88.5	88.6	88.8	89.0	89.0	89.1	89.2	89.2	89.2	89.3	89.3	89.5
≥ 2500	.0	83.4	88.2	89.9	90.6	90.7	90.9	91.1	91.1	91.3	91.3	91.3	91.4	91.4	91.4	91.6
≥ 2000	.0	85.2	90.2	92.0	92.8	92.9	93.2	93.3	93.3	93.5	93.5	93.5	93.6	93.6	93.7	93.9
≥ 1800	.0	85.6	90.6	92.4	93.2	93.3	93.6	93.7	93.8	93.9	93.9	94.0	94.0	94.0	94.1	94.3
≥ 1500	.0	86.8	92.2	94.2	95.0	95.1	95.4	95.6	95.6	95.8	95.8	95.8	95.9	95.9	96.0	96.1
≥ 1200	.0	87.3	92.8	94.9	95.8	95.9	96.2	96.4	96.4	96.6	96.6	96.6	96.7	96.7	96.8	96.9
≥ 1000	.0	87.8	93.5	95.7	96.7	96.8	97.1	97.3	97.4	97.5	97.5	97.6	97.6	97.7	97.7	97.9
≥ 900	.0	87.9	93.7	95.9	96.8	97.0	97.3	97.5	97.6	97.7	97.8	97.8	97.8	97.9	97.9	98.1
≥ 800	.0	88.0	93.9	96.1	97.2	97.3	97.7	97.9	98.0	98.1	98.2	98.2	98.3	98.3	98.3	98.5
≥ 700	.0	88.2	94.1	96.3	97.4	97.6	98.0	98.2	98.2	98.4	98.5	98.5	98.5	98.6	98.6	98.8
≥ 600	.0	88.2	94.2	96.4	97.6	97.7	98.1	98.4	98.4	98.6	98.6	98.7	98.7	98.8	98.8	99.0
≥ 500	.0	88.3	94.2	96.6	97.7	97.9	98.4	98.6	98.6	98.9	98.9	98.9	99.0	99.0	99.1	99.3
≥ 400	.0	88.3	94.3	96.6	97.8	98.0	98.5	98.7	98.7	99.0	99.0	99.0	99.1	99.1	99.2	99.4
≥ 300	.0	88.3	94.3	96.7	97.9	98.0	98.5	98.8	98.8	99.1	99.1	99.1	99.2	99.2	99.3	99.5
≥ 200	.0	88.3	94.3	96.7	97.9	98.1	98.6	98.8	98.9	99.2	99.2	99.2	99.3	99.4	99.4	99.7
≥ 100	.0	88.3	94.3	96.7	97.9	98.1	98.6	98.9	98.9	99.2	99.3	99.3	99.4	99.4	99.5	99.8
0	.0	88.3	94.3	96.7	97.9	98.1	98.6	98.9	98.9	99.2	99.3	99.3	99.4	99.4	99.5	100.0

TOTAL NUMBER OF OBSERVATIONS 14608

DIRNAVOCEANMET SMOS

5703 CEILING VERSUS VISIBILITY JAN 78

SKY COVER

13025 STATION | RUTA, SPAIN STATION NAME | 73-77 PERIOD | JAN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	01	43.9	7.1	6.5	.6	3.2	2.6	3.2	3.9	3.9	5.8	19.4	3.7	155
	04	45.8	6.5	4.5	5.2	1.9	1.9	3.2	1.9	3.9	7.1	18.1	3.6	155
	07	42.6	3.9	5.2	2.6	1.3	4.5	2.6	2.6	5.2	5.2	24.5	4.2	155
	10	29.0	8.4	7.1	1.9	1.3	.6	3.2	3.9	4.5	9.0	31.0	5.1	155
	13	32.9	7.1	5.2	5.2	2.6	2.6	1.3	6.5	3.2	5.2	28.4	4.7	155
	16	25.2	15.5	6.5	3.9	1.9	3.2	1.9	3.9	6.5	10.3	21.3	4.6	155
	19	29.7	8.4	5.8	4.5	1.9	1.9	1.9	7.7	6.5	12.3	19.4	4.7	155
	22	43.2	8.4	2.6	4.5	3.9	1.9	3.9	3.2	5.2	5.8	17.4	3.7	155
TOTALS		36.5	8.2	5.4	3.6	2.3	2.4	2.7	4.2	4.9	7.6	22.4	4.3	1240

NAVWEASERVCOM

5704 SKY COVER JAN 68

2

SKY COVER

13025 STATION RUTA, SPAIN STATION NAME 73-77 PERIOD FEB MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
FEB	01	36.9	7.1	5.0	3.5	.7	1.4	4.3	5.7	6.4	8.5	20.6	4.4	141
	04	38.3	3.5	1.4	2.8	2.8	2.8	3.5	5.0	3.5	7.1	29.1	4.8	141
	07	36.8	2.1	7.1	1.4	2.8	3.5	2.8	2.8	7.8	3.5	31.2	4.9	141
	10	19.1	9.9	6.4	2.8	4.3	2.1	2.8	5.7	2.1	14.9	29.8	5.6	141
	13	21.3	7.1	5.0	5.7	4.3	3.5	2.1	5.0	5.7	9.9	30.5	5.6	141
	16	14.2	7.1	11.3	4.3	5.7	3.5	5.7	7.1	5.0	6.4	29.8	5.6	141
	19	14.2	12.1	5.0	6.4	5.0	3.5	5.7	3.5	6.4	14.2	24.1	5.6	141
	22	38.3	5.0	10.6	3.5	4.3	2.1	2.8	3.5	4.3	4.3	21.3	3.9	141
TOTALS		27.1	6.7	6.5	3.8	3.7	2.8	3.7	4.8	5.2	8.6	27.1	5.1	1128

5704 SKY COVER JAN 68

NAVWEASERVCOM

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
MAR	01	44.5	4.5	5.2	3.9	4.5	2.6	2.6	4.5	7.7	3.9	16.1	3.6	155
	04	43.2	1.9	4.5	6.5	5.2	1.3	5.2	4.5	7.1	2.6	18.1	3.8	155
	07	39.4	4.5	5.2	5.2	5.2	3.9	3.2	3.9	9.0	5.8	14.8	3.9	155
	10	26.5	6.5	2.6	6.5	2.6	3.2	4.5	4.5	7.1	9.7	26.5	5.2	155
	13	18.1	9.0	9.7	6.5	7.1	4.5	3.2	1.9	9.7	8.4	21.9	5.0	155
	16	18.1	9.7	9.0	3.9	6.5	1.3	3.9	6.5	3.2	14.2	23.9	5.3	155
	19	20.6	3.9	5.8	3.9	3.9	5.2	1.9	6.5	11.0	14.2	23.2	5.7	155
	22	31.6	6.5	7.1	6.5	6.5	4.5	6.5	4.5	2.6	3.2	20.6	4.1	155
TOTALS		30.3	5.8	6.1	5.4	5.2	3.3	3.9	4.6	7.2	7.8	20.6	4.6	1240

NAVWEASERVCOM

5704 SKY COVER JAN 68

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | APR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
APR	01	38.7	3.3	10.0	2.7	2.7	6.0	2.0	4.7	7.3	5.3	17.3	4.0	150
	04	36.7	5.3	6.7	5.3	2.7	2.7	1.3	6.7	7.3	6.0	19.3	4.2	150
	07	21.3	9.3	8.0	4.7	2.7	4.0	2.7	8.7	6.7	9.3	22.7	5.1	150
	10	19.3	11.3	4.7	3.3	3.3	4.7	7.3	6.7	10.0	8.7	20.7	5.2	150
	13	16.7	8.0	6.7	5.3	4.7	4.7	6.0	8.7	7.3	9.3	22.7	5.5	150
	16	18.0	13.3	6.0	3.3	6.0	5.3	5.3	2.7	4.0	11.3	24.7	5.2	150
	19	20.7	3.0	6.7	6.0	6.0	4.7		7.3	8.7	14.0	18.0	5.1	150
	22	32.7	6.7	4.7	6.7	6.7	4.0	4.7	6.0	5.3	5.3	17.3	4.2	150
TOTALS		25.5	8.2	6.7	4.7	4.4	4.5	3.7	6.4	7.1	8.7	20.3	4.8	1200

NAVWEASERVCOM

5704 SKY COVER JAN 68

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | MAY MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
MAY	01	45.8	5.2	6.5	3.9	6.5	2.6	2.6	5.2	3.2	3.2	15.5	3.3	155
	04	43.2	6.5	8.4	4.5		4.5	1.3	7.1	5.8	5.2	13.5	3.5	155
	07	29.0	6.5	3.2	9.7	1.9	1.9	1.9	5.2	9.0	11.6	20.0	4.8	155
	10	24.5	9.7	4.5	3.2	4.5	3.9	4.5	3.9	5.8	11.6	23.9	5.1	155
	13	21.3	9.0	8.4	9.0	5.2	4.5	5.8	3.9	8.4	3.2	21.3	4.7	155
	16	23.9	11.0	3.9	11.0	5.8	7.1	3.9	1.9	4.5	11.6	15.5	4.4	155
	19	27.1	8.4	7.1	5.8	7.1	3.2	3.2	8.4	4.5	11.0	14.2	4.4	155
	22	39.4	8.4	6.5	4.5	3.2	6.5	7.7	3.9	5.8	3.2	11.0	3.4	155
TOTALS		31.8	8.1	6.1	6.5	4.3	4.3	3.9	4.9	5.9	7.6	16.9	4.2	1240

NAVWEASERVCOM

5704 SKY COVER JAN 68

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | JUN MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUN	01	52.7	5.3	5.3	5.3	2.0	5.3	3.3	4.0	6.7	2.0	8.0	2.7	150
	04	45.3	5.3	5.3	6.7	5.3	2.0	5.3	4.0	6.0	3.3	11.3	3.2	150
	07	32.7	8.7	6.7	4.0	3.3	2.7	3.3	8.7	9.3	8.7	12.0	4.1	150
	10	32.0	6.7	2.7	3.3	5.3	6.0	8.0	7.3	5.3	10.7	12.7	4.4	150
	13	34.0	7.3	8.0	8.0	7.3	4.7	4.7	8.0	4.0	3.3	10.7	3.5	150
	16	38.0	18.0	4.0	7.3	3.3	3.3	5.3	5.3	2.7	4.7	8.0	2.9	150
	19	44.0	12.0	7.3	4.7	3.3	2.0	4.7	4.0	3.3	4.7	10.0	2.9	150
	22	45.3	11.3	6.7	4.7	4.7	2.7	3.3	2.7	6.0	5.3	7.3	2.8	150
TOTALS		40.5	9.3	5.8	5.5	4.3	3.6	4.7	5.5	5.4	5.3	10.0	3.3	1200

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5704 SKY COVER JAN 68

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | JUL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JUL	01	80.0	3.2	2.6	1.9	.6	1.9	1.3	1.9	1.3	1.3	3.9	1.1	155
	04	81.3	1.9	3.2	1.3		1.3	3.2	.6	.6	1.3	5.2	1.1	155
	07	60.6	8.4	2.6	3.9	1.9	3.2	1.3	3.9	2.6	5.8	5.8	2.1	155
	10	58.7	8.4	3.2	1.9	1.3	4.5	2.6	2.6	5.2	5.2	6.5	2.3	155
	13	62.6	7.7	3.9	7.1	3.2	1.9	1.3	3.2	1.3	1.9	5.8	1.8	155
	16	73.5	5.8	3.9	3.2	1.3	1.9	1.9	1.9	1.9		4.5	1.2	155
	19	74.8	7.7	3.9	.6	4.5	1.3	.6	1.9	1.3	1.3	1.9	1.0	155
	22	74.2	6.5	5.8	5.8	1.3	1.3	.6		1.3	.6	2.6	.9	155
TOTALS		70.7	6.2	3.6	3.2	1.8	2.2	1.6	2.0	1.9	2.2	4.5	1.4	1240

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5704 SKY COVER JAN 68

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | AUG MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
AUG	01	72.9	6.5	4.5	5.8	2.6	.6	1.3	1.3	1.3	2.6	.6	1.0	155
	04	72.3	5.8	4.5	3.9	3.2	1.3	2.6	1.3	1.3	.6	3.2	1.2	155
	07	51.0	8.4	8.4	5.2	5.8	4.5	2.6	2.6	1.3	5.2	5.2	2.3	155
	10	52.9	7.7	4.5	2.6	4.5	2.6	4.5	2.6	7.7	5.2	5.2	2.6	155
	13	60.0	9.0	9.0	4.5	5.2	1.9	3.2	3.2	.6	2.6	.6	1.5	155
	16	69.0	9.0	5.8	5.2	3.2		2.6		1.3	2.6	1.3	1.1	155
	19	71.6	7.1	5.2	5.2	1.9	1.9	1.9	1.9	1.9	.6	.6	1.0	155
	22	76.8	5.2	5.2	5.2	2.6	1.9		1.3	.6	1.3		.8	155
TOTALS		65.8	7.3	5.9	4.7	3.6	1.8	2.3	1.8	2.0	2.6	2.1	1.4	1240

NAVWEASERVCOM

5704 SKY COVER JAN 68

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | SEP MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
SEP	01	57.3	6.0	6.7	3.3	6.7	2.0	5.3	3.3	3.3	2.0	4.0	2.1	150
	04	57.3	6.7	7.3	2.7	4.7	4.0	3.3	3.3	4.7	1.3	4.7	2.1	150
	07	44.7	9.3	6.7	6.0	5.3	2.7	3.3	6.7	6.0	6.0	3.3	2.8	150
	10	40.7	13.3	7.3	4.0	4.0	2.7	4.7	4.0	6.0	3.3	10.0	3.0	150
	13	44.0	6.7	6.7	10.7	4.7	4.7	4.7	4.7	3.3	2.7	7.3	2.8	150
	16	40.7	12.7	8.7	6.0	4.0	4.7	3.3	4.7	4.7	6.0	4.7	2.8	150
	19	44.0	10.0	9.3	4.7	4.0	5.3	3.3	5.3	5.3	4.0	4.7	2.7	150
	22	60.7	7.3	9.3	4.0	6.7	4.0	2.0	.7	1.3	1.3	2.7	1.5	150
TOTALS		48.7	9.0	7.8	5.2	5.0	3.8	3.7	4.1	4.3	3.3	5.2	2.5	1200

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5704 SKY COVER JAN 68

SKY COVER

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (PERIOD) OCT (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
OCT	01	36.8	9.7	7.7	7.1	4.5	9.0	4.5	2.6	3.2	2.6	12.3	3.3	155
	04	41.9	3.9	8.4	8.4	2.6	3.9	3.2	3.9	4.5	7.1	12.3	3.4	155
	07	35.5	5.2	4.5	3.9	5.2	4.5	5.2	5.8	9.7	5.8	14.8	4.2	155
	10	27.7	7.1	6.5	5.8	2.6	3.9	3.2	5.8	7.1	16.1	14.2	4.7	155
	13	21.3	8.4	6.5	9.0	4.5	7.1	3.9	5.8	9.7	8.4	15.5	4.7	155
	16	22.6	9.7	8.4	4.5	7.7	9.0	4.5	2.6	7.1	10.3	13.5	4.5	155
	19	23.9	11.0	7.7	6.5	1.3	3.9	4.5	7.7	10.3	12.3	11.0	4.5	155
	22	32.9	6.5	7.1	6.5	7.7	4.5	3.2	5.8	4.5	9.0	12.3	3.9	155
TOTALS		30.3	7.7	7.1	6.5	4.5	5.7	4.0	5.0	7.0	9.0	13.2	4.2	1240

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5704 SKY COVER JAN 68

SKY COVER

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (PERIOD) NOV (MONTH)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
NOV	01	40.7	4.7	4.7	5.3	7.3	6.0	4.7	4.0	5.3	6.0	11.3	3.6	150
	04	44.0	5.3	7.3	2.0	4.7	3.3	4.0	4.0	6.0	5.3	14.0	3.5	150
	07	44.7	5.3	4.7	6.0	4.0	5.3	3.3	4.7	2.7	5.3	14.0	3.4	150
	10	31.3	6.0	4.7	4.7	4.7	2.7	.7	5.3	10.0	12.0	18.0	4.7	150
	13	28.7	10.0	2.0	7.3	3.3	2.0	3.3	5.3	6.0	15.3	16.7	4.7	150
	16	25.3	8.0	4.0	5.3	5.3	4.0	3.3	8.0	8.0	10.7	18.0	4.9	150
	19	23.3	12.7	4.7	6.7	3.3	6.7	2.7	8.7	10.0	8.7	12.7	4.5	150
	22	38.7	8.0	4.0	6.0	4.7	4.7	3.3	3.3	6.0	7.3	14.0	3.7	150
TOTALS		34.6	7.5	4.5	5.4	4.7	4.3	3.2	5.4	6.8	8.8	14.8	4.1	1200

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5704 SKY COVER JAN 68

2

SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
DEC	01	32.3	5.8	6.5	5.8	2.6	5.2	7.7	5.8	5.8	6.5	16.1	4.3	155
	04	38.1	3.2	5.2	5.2	1.9	3.9	3.9	6.5	5.8	4.5	21.9	4.3	155
	07	36.1	1.9	3.2	5.2	1.9	3.2	6.5	3.2	8.4	8.4	21.9	4.7	155
	10	25.8	7.1	1.9	.6	4.5	2.6	2.6	5.2	7.7	14.8	27.1	5.6	155
	13	25.2	3.9	3.2	2.6	5.2	3.2	1.9	5.2	7.7	18.1	23.9	5.7	155
	16	18.1	8.4	4.5	4.5	4.5	1.9	4.5	3.2	7.7	15.5	27.1	5.8	155
	19	19.4	5.8	2.6	3.9	1.9	2.6	6.5	9.0	7.7	12.3	28.4	6.0	155
	22	32.3	1.9	5.2	6.5	5.2	3.2	4.5	3.9	5.2	9.0	23.2	4.8	155
TOTALS		28.4	4.8	4.0	4.3	3.5	3.2	4.8	5.3	7.0	11.1	23.7	5.2	1240

5704 SKY COVER JAN 68

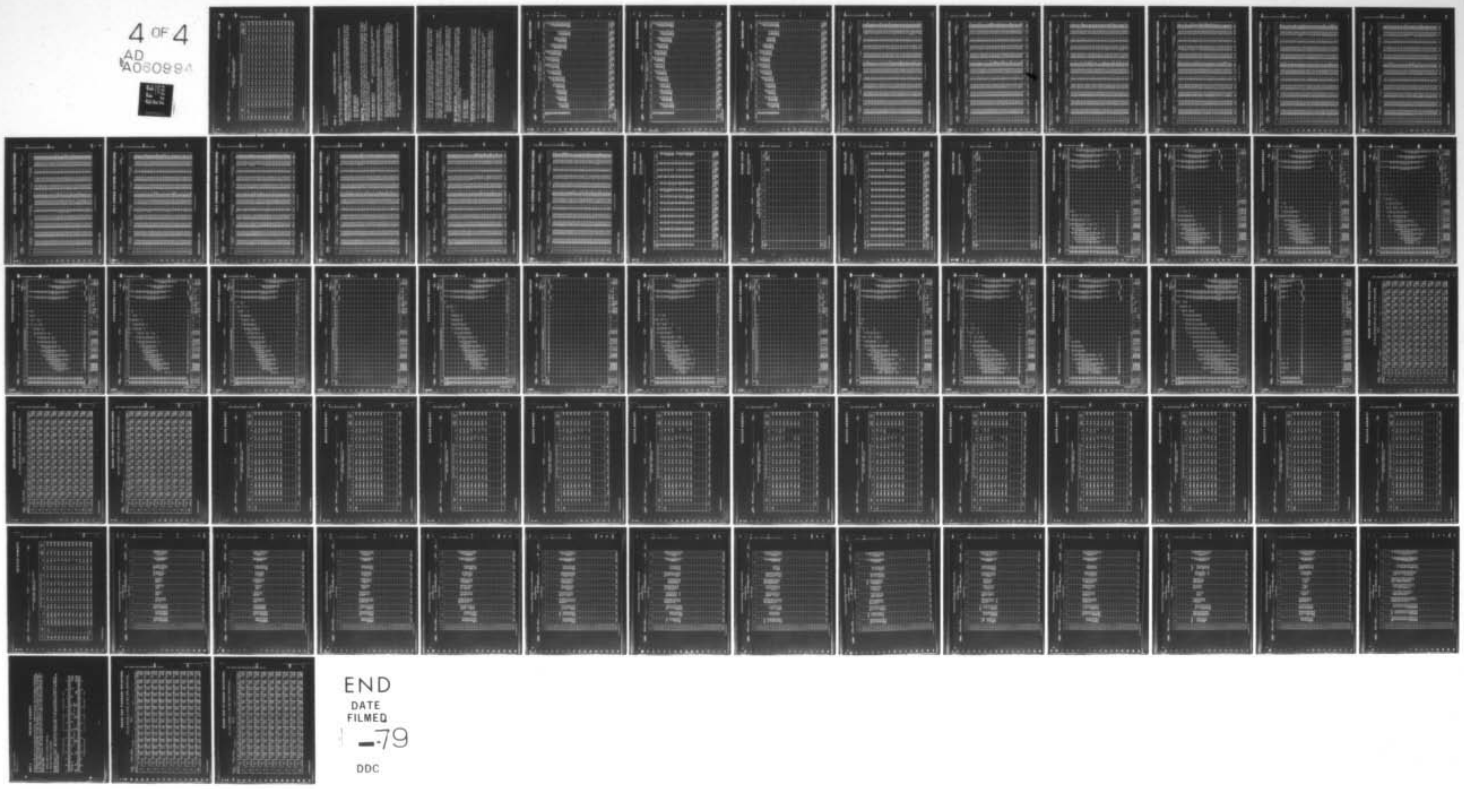
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AD-A060 994 NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C F/G 4/2
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) ROTA, SP--ETC(U)
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SKY COVER

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	36.5	8.2	5.4	3.6	2.3	2.4	2.7	4.2	4.9	7.6	22.4	4.3	1240
FEB		27.1	6.7	6.5	3.8	3.7	2.8	3.7	4.8	5.2	8.6	27.1	5.1	1128
MAR		30.3	5.8	6.1	5.4	5.2	3.3	3.9	4.6	7.2	7.8	20.6	4.6	1240
APR		25.5	8.2	6.7	4.7	4.4	4.5	3.7	6.4	7.1	8.7	20.3	4.8	1200
MAY		31.8	8.1	6.1	6.5	4.3	4.3	3.9	4.9	5.9	7.6	16.9	4.2	1240
JUN		40.5	9.3	5.8	5.5	4.3	3.6	4.7	5.5	5.4	5.3	10.0	3.3	1200
JUL		70.7	6.2	3.6	3.2	1.8	2.2	1.6	2.0	1.9	2.2	4.5	1.4	1240
AUG		65.8	7.3	5.9	4.7	3.6	1.8	2.3	1.8	2.0	2.6	2.1	1.4	1240
SEP		48.7	9.0	7.8	5.2	5.0	3.8	3.7	4.1	4.3	3.3	5.2	2.5	1200
OCT		30.3	7.7	7.1	6.5	4.5	5.7	4.0	5.0	7.0	9.0	13.2	4.2	1240
NOV		34.6	7.5	4.5	5.4	4.7	4.3	3.2	5.4	6.8	8.8	14.8	4.1	1200
DEC		28.4	4.8	4.0	4.3	3.5	3.2	4.8	5.3	7.0	11.1	23.7	5.2	1240
TOTALS		39.2	7.4	5.8	4.9	3.9	3.5	3.5	4.5	5.4	6.9	15.1	3.8	14608

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5704 SKY COVER JAN 68

NWSD, Federal Building

Asheville, N. C.

PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:

   a. Daily maximum temperature
   b. Daily minimum temperature
   c. Daily mean temperature

2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:

   a. Extreme maximum temperature
   b. Extreme minimum temperature

   NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:

   a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

   NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares (ΣX^2), sums of values (ΣX), means ($\bar{X}$), and standard deviations (σx). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

a. Dry-bulb temperature
b. Wet-bulb temperature
c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).

DAILY TEMPERATURES

13025 STATION | ROTA, SPAIN STATION NAME | 58-77 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MAXIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
NN 105							.3	.5	.2				.1
NN 100						.2	2.5	1.5	.5				.4
NN 95					.5	1.1	7.5	9.0	3.0				1.7
NN 90					2.9	8.4	24.1	27.2	11.4	.6			6.2
NN 85				1.1	12.1	22.6	44.7	46.9	28.4	4.2			13.3
NN 80				6.3	27.0	43.5	71.0	75.4	49.3	20.8	1.2		24.5
NN 75		.6	4.8	16.7	44.5	68.6	93.7	97.3	81.9	45.3	5.3		38.2
NN 70	.8	5.6	16.5	38.8	67.9	93.5	100.0	100.0	98.4	81.1	24.2	2.7	52.5
NN 65	14.6	22.2	43.3	74.4	95.2	100.0			100.0	97.6	62.1	21.6	69.3
NN 60	65.4	74.9	87.3	96.1	99.5					99.7	91.8	63.7	89.8
NN 55	94.6	98.5	99.3	100.0	100.0					99.8	99.3	93.2	98.7
NN 50	99.2	100.0	100.0							100.0	100.0	98.5	99.8
NN 45	100.0											99.7	100.0
NN 40												100.0	100.0
NN													
NN													
NN												

DAILY TEMPERATURES

13025 STATION | ROTA, SPAIN STATION NAME | 58-77 YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
NV 80								.2					.0
NV 75						.4	1.4	2.5	1.6				.5
NV 70					.3	2.5	18.5	21.1	10.5	.2			4.4
NV 65					3.2	22.1	59.6	59.9	34.2	9.5	.2		15.7
NV 60	.3	.2	2.2	3.7	24.4	64.4	90.3	88.6	70.7	38.4	6.8	1.0	32.6
NV 55	9.3	10.1	12.9	24.0	63.7	92.1	99.0	99.2	93.9	74.2	25.5	11.0	51.3
NV 50	29.7	33.5	41.9	53.9	92.7	99.3	100.0	100.0	98.6	91.3	57.4	27.1	69.6
NV 45	53.0	63.3	75.0	91.4	99.5	100.0			100.0	98.5	80.6	53.2	84.5
NV 40	79.1	89.2	96.3	99.5	100.0					100.0	94.5	81.5	95.0
NV 35	97.1	99.1	99.8	100.0							99.7	96.9	99.4
NV 30	99.8	100.0	100.0								100.0	99.8	100.0
NV 25	100.0											100.0	100.0
NV													
NV													
NV												

DAILY TEMPERATURES

13025 STATION | ROTA, SPAIN STATION NAME | 58-77 YEARS | MEAN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
≥ 90							.3						.0
≥ 85						.4	3.4	3.6	1.9				.8
≥ 80					.3	3.0	18.3	19.0	9.3				4.2
≥ 75					3.6	17.5	50.6	55.3	27.0	3.1			13.1
≥ 70		.2	.2	1.1	22.4	52.8	88.8	89.3	62.1	24.0			28.3
≥ 65	.2	.4	1.5	11.9	57.2	89.3	99.3	99.5	94.6	68.7	10.4		44.4
≥ 60	9.2	10.2	22.8	56.8	90.8	99.5	100.0	100.0	99.6	92.6	42.7	11.5	61.4
≥ 55	41.6	51.0	70.8	92.8	99.5	100.0			100.0	98.9	79.5	41.1	81.3
≥ 50	80.5	91.6	97.6	99.8	100.0					100.0	96.0	79.0	95.3
≥ 45	97.5	99.3	100.0	100.0							100.0	96.8	99.4
≥ 40	99.8	100.0										99.7	100.0
≥ 35	100.0											100.0	100.0
≥													
≥													
≥												

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

13025	ROTA, SPAIN	1959-1977	JANUARY
STATION	STATION NAME	YEARS	MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP DATE
1	51.2	10.7	59.2	15.1	68	20.0	1967	43.3	6.3	33	0.6	1971
2	52.4	11.3	60.3	15.7	68	20.0	1976	44.6	7.0	28	-2.2	1971
3	52.9	11.6	60.1	15.6	66	18.9	1976*	45.7	7.6	38	3.3	1971*
4	52.1	11.2	60.8	16.0	67	19.4	1960	43.4	6.3	33	0.6	1967
5	52.2	11.2	59.5	15.3	68	20.0	1960	44.8	7.1	32	0.0	1965
6	52.2	11.2	60.1	15.6	67	19.4	1960	44.3	6.8	35	1.7	1965
7	51.0	10.6	60.2	15.7	66	18.9	1974	41.9	5.5	33	0.6	1967
8	52.0	11.1	60.5	15.9	67	19.4	1974	43.4	6.3	31	-0.6	1967
9	53.9	12.2	61.0	16.1	66	18.9	1971	46.8	8.2	36	2.2	1975
10	53.9	12.2	60.7	15.9	65	18.3	1975	47.1	8.4	36	2.2	1976*
11	53.4	11.9	60.6	15.9	68	20.0	1974	46.2	7.9	35	1.7	1968
12	52.5	11.4	60.0	15.6	68	20.0	1976	45.1	7.3	32	0.0	1960
13	52.9	11.6	60.3	15.7	67	19.4	1976	45.6	7.6	35	1.7	1968
14	53.8	12.1	60.8	16.0	66	18.9	1975	46.8	8.2	35	1.7	1961
15	53.8	12.1	61.0	16.1	66	18.9	1977*	46.6	8.1	36	2.2	1967*
16	52.6	11.4	60.9	16.1	70	21.1	1968	44.3	6.8	35	1.7	1960
17	54.2	12.3	61.6	16.4	72	22.2	1968	46.7	8.2	31	-0.6	1960
18	54.4	12.4	61.3	16.3	69	20.6	1968	47.6	8.7	32	0.0	1960
19	55.1	12.8	61.9	16.6	69	20.6	1970	48.3	9.1	39	3.9	1968
20	55.4	13.0	63.0	17.2	70	21.1	1969	47.7	8.7	37	2.8	1976
21	54.0	12.2	60.8	16.0	65	18.3	1969*	47.2	8.4	39	3.9	1976
22	52.9	11.6	60.4	15.8	66	18.9	1969	45.4	7.4	36	2.2	1976
23	53.3	11.8	61.3	16.3	66	18.9	1959	45.4	7.4	35	1.7	1972
24	53.1	11.7	61.0	16.1	71	21.7	1959	45.3	7.4	32	0.0	1972
25	53.5	11.9	61.2	16.2	69	20.6	1959	45.8	7.7	35	1.7	1972
26	52.9	11.6	61.1	16.2	68	20.0	1962	44.7	7.1	30	-1.1	1976
27	52.9	11.6	61.1	16.2	68	20.0	1967	44.7	7.1	31	-0.6	1976
28	52.2	11.2	60.3	15.7	66	18.9	1967*	44.2	6.8	31	-0.6	1976
29	52.6	11.4	59.3	15.2	70	21.1	1975	45.8	7.7	34	1.1	1972
30	52.6	11.4	59.4	15.2	66	18.9	1966	45.8	7.7	33	0.6	1963
31	52.6	11.4	60.4	15.8	69	20.6	1966	44.8	7.1	38	3.3	1973*
Monthly	53.1	11.7	60.6	15.9	72	22.2	1968	45.5	7.5	28	-2.2	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

5125 DAILY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

13025	ROTA, SPAIN	1959-1977	FEBRUARY
STATION	STATION NAME	YEARS	MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	54.0	12.2	61.6	16.4	70	21.1	1975	46.4	8.0	39	3.9	1971*
2	54.0	12.2	61.0	16.1	71	21.7	1964	46.9	8.3	37	2.8	1963
3	53.1	11.7	60.7	15.9	67	19.4	1964	45.5	7.5	35	1.7	1963
4	53.5	11.9	61.4	16.3	70	21.1	1961	45.7	7.6	34	1.1	1973
5	52.6	11.4	61.0	16.1	70	21.1	1966	44.1	6.7	35	1.7	1973
6	54.1	12.3	61.2	16.2	68	20.0	1962	47.1	8.4	38	3.3	1973*
7	54.4	12.4	61.9	16.6	72	22.2	1977	46.8	8.2	38	3.3	1973
8	53.2	11.8	61.5	16.4	68	20.0	1961	44.8	7.1	36	2.2	1960
9	53.7	12.1	61.5	16.4	71	21.7	1961	45.8	7.7	33	0.6	1960
10	53.9	12.2	61.1	16.2	70	21.1	1961	46.7	8.2	36	2.2	1964
11	54.3	12.4	61.6	16.4	71	21.7	1961	47.1	8.4	34	1.1	1964
12	53.2	11.8	60.3	15.7	64	17.8	1971*	46.1	7.8	37	2.8	1965*
13	53.3	11.8	60.1	15.6	68	20.0	1971	46.5	8.1	38	3.3	1973*
14	53.5	11.9	60.4	15.8	65	18.3	1972*	46.7	8.2	37	2.8	1965
15	53.7	12.1	60.7	15.9	65	18.3	1975*	46.7	8.2	32	0.0	1970
16	54.1	12.3	61.2	16.2	67	19.4	1975	46.9	8.3	36	2.2	1969
17	53.3	11.8	61.3	16.3	66	18.9	1975	45.4	7.4	35	1.7	1973*
18	54.8	12.7	62.3	16.8	66	18.9	1977*	47.4	8.6	37	2.8	1965
19	54.7	12.6	61.9	16.6	68	20.0	1975*	47.5	8.6	35	1.7	1965
20	54.5	12.5	63.3	17.4	73	22.8	1964	45.8	7.7	33	0.6	1965
21	55.2	12.9	63.4	17.4	74	23.3	1970	46.9	8.3	38	3.3	1970
22	56.1	13.4	63.8	17.7	74	23.3	1970	48.3	9.1	40	4.4	1974
23	55.4	13.0	63.8	17.7	71	21.7	1976*	46.9	8.3	40	4.4	1966*
24	55.2	12.9	64.0	17.8	71	21.7	1971	46.3	7.9	39	3.9	1970
25	55.5	13.1	62.6	17.0	68	20.0	1966	48.4	9.1	38	3.3	1974
26	56.0	13.3	63.9	17.7	77	25.0	1971	48.1	8.9	38	3.3	1974
27	57.3	14.1	64.6	18.1	77	25.0	1960	49.9	9.9	38	3.3	1970
28	56.9	13.8	65.4	18.6	77	25.0	1960	48.5	9.2	38	3.3	1970
29	55.6	13.1	63.4	17.4	66	18.9	1976*	47.8	8.8	43	6.1	1972*
30												
31												
Monthly	54.4	12.4	62.1	16.7	77	25.0	1971*	46.8	8.2	32	0.0	1970

*A[illegible] EARLIER YEARS

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

13025 — STATION
ROTA, SPAIN — STATION NAME
1959-1977 — YEARS
MARCH — MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	56.2	13.4	64.4	18.0	76	24.4	1967	47.9	8.8	38	3.3	1974
2	56.6	13.7	64.9	18.3	78	25.6	1967	48.3	9.1	37	2.8	1972
3	56.2	13.4	63.9	17.7	77	25.0	1960	48.4	9.1	38	3.3	1973
4	56.2	13.4	64.7	18.2	77	25.0	1977	47.7	8.7	40	4.4	1974
5	55.9	13.3	64.9	18.3	74	23.3	1977	46.8	8.2	37	2.8	1974
6	55.0	12.8	63.4	17.4	69	20.6	1977	46.6	8.1	36	2.2	1971
7	55.6	13.1	63.4	17.4	73	22.8	1977	47.7	8.7	39	3.9	1966*
8	54.7	12.6	62.7	17.1	74	23.3	1977	46.7	8.2	37	2.8	1965
9	54.9	12.7	62.3	16.8	70	21.1	1977*	47.4	8.6	39	3.9	1966
10	54.7	12.6	62.2	16.8	75	23.9	1966	47.1	8.4	34	1.1	1971
11	55.9	13.3	63.3	17.4	72	22.2	1967*	48.6	9.2	39	3.9	1966
12	56.2	13.4	63.4	17.4	76	24.4	1967*	48.9	9.4	40	4.4	1974
13	56.6	13.7	64.4	18.0	79	26.1	1967	48.8	9.3	42	5.6	1974
14	56.8	13.8	64.1	17.8	72	22.2	1961	49.5	9.7	42	5.6	1959
15	56.0	13.3	63.3	17.4	74	23.3	1977	48.7	9.3	40	4.4	1970
16	56.7	13.7	64.8	18.2	75	23.9	1961	48.5	9.2	36	2.2	1970
17	56.7	13.7	65.9	18.8	75	23.9	1961	47.5	8.6	37	2.8	1970
18	58.0	14.4	66.2	19.0	76	24.4	1961	49.7	9.8	36	2.2	1970
19	56.9	13.8	64.9	18.3	76	24.4	1966*	49.0	9.4	40	4.4	1973
20	57.7	14.3	65.4	18.6	79	26.1	1965	50.0	10.0	41	5.0	1972
21	56.8	13.8	64.7	18.2	77	25.0	1967	48.9	9.4	41	5.0	1972
22	57.2	14.0	65.3	18.5	79	26.1	1967	49.1	9.5	40	4.4	1975
23	56.6	13.7	64.8	18.2	78	25.6	1964	48.3	9.1	40	4.4	1971*
24	56.1	13.4	64.4	18.0	74	23.3	1967*	47.7	8.7	39	3.9	1963
25	56.0	13.3	64.3	17.9	72	22.2	1977	47.8	8.8	40	4.4	1970*
26	56.7	13.7	65.7	18.7	76	24.4	1971*	47.7	8.7	40	4.4	1973
27	58.5	14.7	67.5	19.7	79	26.1	1966	49.5	9.7	42	5.6	1964
28	58.7	14.8	66.3	19.1	74	23.3	1972*	51.1	10.6	44	6.7	1966
29	57.2	14.0	64.4	18.0	73	22.8	1961	50.1	10.1	42	5.6	1969
30	56.6	13.7	65.1	18.4	74	23.3	1965	48.2	9.0	36	2.2	1977
31	56.9	13.8	65.8	18.8	74	23.3	1976	47.9	8.8	39	3.9	1977*
Monthly	56.5	13.6	64.5	18.1	79	26.1	1967*	48.4	9.1	34	1.1	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

13025	RUTA, SPAIN	1959-1977	APRIL
STATION	STATION NAME	YEARS	MONTH

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	57.2	14.0	66.5	19.2	74	23.3	1965*	47.8	8.8	41	5.0	1975*
2	57.2	14.0	65.6	18.7	75	23.9	1973	48.7	9.3	39	3.9	1975
3	57.8	14.3	65.6	18.7	77	25.0	1973	50.0	10.0	41	5.0	1975
4	58.0	14.4	66.0	18.9	77	25.0	1973	50.1	10.1	43	6.1	1974
5	58.6	14.8	66.0	18.9	79	26.1	1967	51.2	10.7	45	7.2	1974*
6	57.4	14.1	66.5	19.2	80	26.7	1973	48.4	9.1	41	5.0	1975
7	58.8	14.9	67.8	19.9	82	27.8	1973	49.7	9.8	42	5.6	1968
8	58.9	14.9	65.9	18.8	75	23.9	1960	51.8	11.0	44	6.7	1977*
9	58.4	14.7	66.0	18.9	76	24.4	1962	50.8	10.4	44	6.7	1975*
10	57.6	14.2	65.9	18.8	75	23.9	1962	49.4	9.7	38	3.3	1973
11	58.5	14.7	67.7	19.8	73	22.8	1977*	49.3	9.6	38	3.3	1973
12	58.7	14.8	68.0	20.0	78	25.6	1965	49.4	9.7	40	4.4	1973
13	60.1	15.6	69.7	20.9	83	28.3	1977	50.5	10.3	44	6.7	1976*
14	61.2	16.2	71.0	21.7	83	28.3	1965	51.4	10.8	45	7.2	1975*
15	61.5	16.4	70.9	21.6	84	28.9	1965	52.1	11.2	46	7.8	1971
16	61.1	16.2	69.3	20.7	81	27.2	1970	52.9	11.6	45	7.2	1972*
17	60.1	15.6	68.6	20.3	86	30.0	1965	51.6	10.9	46	7.8	1972*
18	59.8	15.4	69.2	20.7	80	26.7	1965	50.4	10.2	41	5.0	1972
19	60.3	15.7	69.3	20.7	76	24.4	1959	51.4	10.8	42	5.6	1973*
20	60.3	15.7	69.8	21.0	80	26.7	1959	50.7	10.4	44	6.7	1972
21	60.4	15.8	70.6	21.4	84	28.9	1977	50.2	10.1	44	6.7	1972*
22	61.1	16.2	70.3	21.3	83	28.3	1966	51.9	11.1	45	7.2	1970
23	61.0	16.1	70.3	21.3	84	28.9	1966	51.7	10.9	44	6.7	1972
24	61.5	16.4	70.8	21.6	82	27.8	1964	52.1	11.2	44	6.7	1971
25	61.6	16.4	71.6	22.0	88	31.1	1964	51.6	10.9	46	7.8	1971
26	62.4	16.9	71.6	22.0	85	29.4	1977*	53.1	11.7	46	7.8	1965
27	61.5	16.4	70.1	21.2	81	27.2	1977*	52.9	11.6	44	6.7	1972
28	61.9	16.6	69.3	20.7	81	27.2	1964	54.5	12.5	44	6.7	1970
29	61.4	16.3	69.8	21.0	87	30.6	1964	53.1	11.7	43	6.1	1970
30	62.5	16.9	71.8	22.1	88	31.1	1964	53.2	11.8	43	6.1	1970
31												
Monthly	59.9	15.5	68.7	20.4	88	31.1	1964	51.1	10.6	38	3.3	1973

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

13025 — STATION
ROTA, SPAIN — STATION NAME
1959-1977 — YEARS
MAY — MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP DATE
1	62.2	16.8	71.2	21.8	84	28.9	1966*	53.3	11.8	47	8.3	1970*
2	62.4	16.9	71.3	21.8	82	27.8	1966	53.6	12.0	48	8.9	1974
3	62.6	17.0	70.8	21.6	81	27.2	1966*	54.3	12.4	48	8.9	1975
4	62.4	16.9	71.8	22.1	85	29.4	1964	52.9	11.6	46	7.8	1971
5	63.6	17.6	71.9	22.2	92	33.3	1965	55.3	12.9	47	8.3	1975
6	62.9	17.2	72.4	22.4	92	33.3	1965	53.5	11.9	47	8.3	1975
7	63.0	17.2	73.2	22.9	90	32.2	1965	52.8	11.6	44	6.7	1972
8	63.8	17.7	74.0	23.3	92	33.3	1965	53.6	12.0	43	6.1	1970
9	64.8	18.2	74.3	23.5	93	33.9	1965	55.3	12.9	47	8.3	1975*
10	65.9	18.8	75.9	24.4	96	35.6	1965	55.8	13.2	47	8.3	1970
11	66.3	19.1	75.7	24.3	95	35.0	1965	56.9	13.8	51	10.6	1976
12	66.3	19.1	76.1	24.5	94	34.4	1965	56.6	13.7	52	11.1	1959
13	66.4	19.1	75.6	24.2	95	35.0	1965	57.2	14.0	48	8.9	1970*
14	66.9	19.4	76.1	24.5	89	31.7	1974	57.7	14.3	47	8.3	1966
15	66.4	19.1	75.5	24.2	91	32.8	1964	57.4	14.1	46	7.8	1972
16	65.2	18.4	74.5	23.6	92	33.3	1964	56.0	13.3	44	6.7	1972
17	65.9	18.8	74.9	23.8	88	31.1	1964	56.9	13.8	49	9.4	1975
18	65.4	18.6	74.1	23.4	88	31.1	1964	56.8	13.8	45	7.2	1972
19	65.0	18.3	73.1	22.8	83	28.3	1970	56.9	13.8	52	11.1	1970
20	65.5	18.6	74.6	23.7	88	31.1	1966	56.4	13.6	47	8.3	1972
21	65.8	18.8	75.5	24.2	89	31.7	1974	56.2	13.4	48	8.9	1972
22	67.0	19.4	76.1	24.5	91	32.8	1974	57.9	14.4	50	10.0	1972
23	65.8	18.8	75.3	24.1	88	31.1	1973	56.4	13.6	49	9.4	1972
24	66.8	19.3	76.2	24.6	91	32.8	1973	57.4	14.1	50	10.0	1972
25	67.0	19.4	77.1	25.1	91	32.8	1960	57.0	13.9	50	10.0	1975*
26	67.6	19.8	77.7	25.4	93	33.9	1967	57.4	14.1	50	10.0	1974
27	66.7	19.3	74.9	23.8	89	31.7	1972	58.4	14.7	50	10.0	1971
28	66.2	19.0	74.8	23.8	89	31.7	1972*	57.5	14.2	51	10.6	1971
29	66.7	19.3	74.8	23.8	87	30.6	1972	58.5	14.7	51	10.6	1975*
30	66.3	19.1	75.7	24.3	89	31.7	1970	56.8	13.8	51	10.6	1975*
31	66.9	19.4	74.5	23.6	87	30.6	1976	59.4	15.2	55	12.8	1967
Monthly	65.4	18.6	74.5	23.6	96	35.6	1965	56.2	13.4	43	6.1	1970

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

5125 DAILY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

13025	ROTA, SPAIN	1959-1977	JUNE
STATION	STATION NAME	YEARS	MONTH

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	68.2	20.1	76.9	24.9	90	32.2	1976	59.4	15.2	52	11.1	1965
2	67.1	19.5	75.2	24.0	87	30.6	1970	59.1	15.1	52	11.1	1973
3	66.2	19.0	73.7	23.2	84	28.9	1974	58.7	14.8	47	8.3	1975
4	67.4	19.7	74.8	23.8	82	27.8	1974*	59.9	15.5	50	10.0	1975
5	67.6	19.8	75.8	24.3	86	30.0	1976*	59.4	15.2	54	12.2	1972
6	67.4	19.7	75.7	24.3	94	34.4	1966	59.1	15.1	50	10.0	1972
7	67.7	19.8	75.8	24.3	92	33.3	1964	59.5	15.3	52	11.1	1973
8	68.4	20.2	77.7	25.4	95	35.0	1964	59.2	15.1	52	11.1	1972
9	68.6	20.3	77.6	25.3	96	35.6	1964	59.7	15.4	52	11.1	1973
10	68.8	20.4	77.8	25.4	93	33.9	1964	59.8	15.4	52	11.1	1970
11	69.4	20.8	78.5	25.8	95	35.0	1964	60.3	15.7	53	11.7	1977
12	69.2	20.7	77.9	25.5	90	32.2	1976	60.4	15.8	52	11.1	1971
13	68.8	20.4	76.8	24.9	92	33.3	1976	60.8	16.0	54	12.2	1977*
14	68.7	20.4	76.6	24.8	88	31.1	1973	60.8	16.0	50	10.0	1977
15	67.9	19.9	75.7	24.3	87	30.6	1976*	60.1	15.6	49	9.4	1972
16	68.8	20.4	77.6	25.3	87	30.6	1960	60.1	15.6	49	9.4	1972
17	69.1	20.6	78.1	25.6	86	30.0	1973*	60.2	15.7	48	8.9	1972
18	70.6	21.4	79.8	26.6	93	33.9	1963	61.5	16.4	52	11.1	1971
19	70.8	21.6	80.2	26.8	91	32.8	1965	61.3	16.3	53	11.7	1972
20	71.6	22.0	81.3	27.4	93	33.9	1971*	61.8	16.6	53	11.7	1972
21	72.1	22.3	82.5	28.1	92	33.3	1967	61.6	16.4	55	12.8	1970
22	71.0	21.7	79.3	26.3	92	33.3	1967	62.7	17.1	55	12.8	1972*
23	72.2	22.3	81.6	27.6	94	34.4	1967	62.9	17.2	53	11.7	1970
24	71.6	22.0	80.5	26.9	89	31.7	1970	62.7	17.1	56	13.3	1965
25	72.4	22.4	81.6	27.6	91	32.8	1963	63.2	17.3	58	14.4	1965
26	72.9	22.7	82.2	27.9	94	34.4	1976	63.5	17.5	56	13.3	1971
27	73.9	23.3	83.7	28.7	101	38.3	1965	64.1	17.8	57	13.9	1975
28	73.9	23.3	83.9	28.8	94	34.4	1966	63.8	17.7	54	12.2	1973
29	73.3	22.9	82.4	28.0	95	35.0	1968	64.1	17.8	55	12.8	1972
30	73.9	23.3	83.9	28.8	94	34.4	1974	63.8	17.7	53	11.7	1972
31												
Monthly	70.0	21.1	78.8	26.0	101	38.3	1965	61.1	16.2	47	8.3	1975

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

13025	ROTA, SPAIN	1959-1977	JULY
STATION	STATION NAME	YEARS	MONTH

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	72.9	22.7	81.9	27.7	94	34.4	1974	63.8	17.7	56	13.3	1963
2	73.2	22.9	81.9	27.7	96	35.6	1974	64.4	18.0	54	12.2	1963
3	73.2	22.9	82.4	28.0	93	33.9	1974	64.1	17.8	56	13.3	1965
4	72.6	22.6	81.3	27.4	91	32.8	1973	63.8	17.7	57	13.9	1972
5	73.0	22.8	81.3	27.4	92	33.3	1970	64.7	18.2	55	12.8	1965
6	73.7	23.2	83.6	28.7	96	35.6	1959	63.8	17.7	52	11.1	1965
7	73.3	22.9	83.2	28.4	96	35.6	1969	63.4	17.4	53	11.7	1965
8	73.2	22.9	82.2	27.9	92	33.3	1971	64.1	17.8	55	12.8	1965
9	74.3	23.5	84.4	29.1	98	36.7	1974	64.1	17.8	51	10.6	1965
10	74.4	23.6	84.3	29.1	98	36.7	1974	64.5	18.1	56	13.3	1965
11	75.2	24.0	85.4	29.7	95	35.0	1974	65.0	18.3	56	13.3	1965
12	76.4	24.7	87.2	30.7	98	36.7	1974	65.6	18.7	59	15.0	1965
13	74.9	23.8	84.4	29.1	98	36.7	1975	65.4	18.6	61	16.1	1977*
14	74.3	23.5	83.8	28.8	102	38.9	1976*	64.8	18.2	52	11.1	1965
15	74.8	23.8	84.2	29.0	108	42.2	1975	65.5	18.6	55	12.8	1965
16	75.0	23.9	85.3	29.6	105	40.6	1975	64.7	18.2	53	11.7	1965
17	74.7	23.7	84.3	29.1	102	38.9	1964	65.1	18.4	56	13.3	1972
18	75.2	24.0	85.4	29.7	103	39.4	1967	65.0	18.3	60	15.6	1973*
19	76.6	24.8	87.1	30.6	100	37.8	1964	66.1	18.9	58	14.4	1973
20	76.8	24.9	87.7	30.9	104	40.0	1967	66.0	18.9	57	13.9	1965
21	76.0	24.4	85.8	29.9	96	35.6	1976*	66.1	18.9	56	13.3	1965
22	75.8	24.3	84.5	29.2	95	35.0	1976	67.1	19.5	59	15.0	1971*
23	74.4	23.6	83.8	28.8	98	36.7	1964	65.1	18.4	55	12.8	1965
24	75.6	24.2	84.3	29.1	97	36.1	1973	66.9	19.4	60	15.6	1973
25	76.4	24.7	85.6	29.8	103	39.4	1973	67.1	19.5	55	12.8	1965
26	75.8	24.3	84.5	29.2	92	33.3	1973*	67.2	19.6	57	13.9	1965
27	75.3	24.1	84.1	28.9	96	35.6	1963	66.5	19.2	57	13.9	1965
28	75.6	24.2	84.1	28.9	96	35.6	1962	67.2	19.6	58	14.4	1965
29	75.7	24.3	84.8	29.3	101	38.3	1975	66.5	19.2	56	13.3	1965
30	75.4	24.1	83.9	28.8	103	39.4	1975	66.9	19.4	57	13.9	1966
31	74.6	23.7	83.4	28.6	97	36.1	1971	65.8	18.8	59	15.0	1966
Monthly	74.8	23.8	84.2	29.0	108	42.2	1975	65.4	18.6	51	10.6	1965

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

13025 STATION | ROTA, SPAIN STATION NAME | 1959-1977 YEARS | AUGUST MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	75.7	24.3	85.1	29.5	98	36.7	1964	66.3	19.1	58	14.4	1965
2	75.1	23.9	84.3	29.1	106	41.1	1964	65.9	18.8	60	15.6	1973
3	74.3	23.5	82.5	28.1	104	40.0	1964	66.0	18.9	56	13.3	1963
4	75.7	24.3	85.9	29.9	103	39.4	1964	65.4	18.6	56	13.3	1965
5	75.7	24.3	85.9	29.9	98	36.7	1965	65.5	18.6	58	14.4	1971
6	74.8	23.8	84.6	29.2	98	36.7	1976	65.1	18.4	55	12.8	1970
7	75.4	24.1	85.2	29.6	96	35.6	1975	65.7	18.7	58	14.4	1970*
8	75.3	24.1	85.5	29.7	106	41.1	1976	65.1	18.4	59	15.0	1965
9	75.5	24.2	86.0	30.0	100	37.8	1963	65.0	18.3	52	11.1	1965
10	75.7	24.3	85.8	29.9	96	35.6	1966	65.5	18.6	55	12.8	1965
11	74.5	23.6	83.1	28.4	99	37.2	1974	65.9	18.8	57	13.9	1965
12	74.6	23.7	83.9	28.8	93	33.9	1974*	65.3	18.5	55	12.8	1972
13	75.6	24.2	84.8	29.3	96	35.6	1976*	66.4	19.1	60	15.6	1960*
14	74.8	23.8	84.3	29.1	95	35.0	1976	65.3	18.5	54	12.2	1965
15	75.1	23.9	85.1	29.5	93	33.9	1974	65.2	18.4	56	13.3	1965
16	75.3	24.1	84.4	29.1	95	35.0	1974	66.3	19.1	56	13.3	1970
17	74.7	23.7	84.4	29.1	94	34.4	1972	64.9	18.3	58	14.4	1970*
18	74.9	23.8	84.5	29.2	98	36.7	1975	65.3	18.5	57	13.9	1963
19	76.0	24.4	86.0	30.0	101	38.3	1975	65.9	18.8	56	13.3	1971
20	76.5	24.7	87.1	30.6	105	40.6	1973	66.0	18.9	55	12.8	1971
21	75.6	24.2	84.9	29.4	97	36.1	1973	66.2	19.0	55	12.8	1971
22	74.5	23.6	84.3	29.1	93	33.9	1963*	64.7	18.2	57	13.9	1970
23	75.6	24.2	86.4	30.2	93	33.9	1975*	64.7	18.2	54	12.2	1965
24	75.4	24.1	85.5	29.7	97	36.1	1964	65.4	18.6	51	10.6	1965
25	76.2	24.6	85.6	29.8	98	36.7	1961	66.9	19.4	55	12.8	1971
26	75.1	23.9	84.5	29.2	99	37.2	1961	65.6	18.7	55	12.8	1971
27	75.7	24.3	86.0	30.0	96	35.6	1962	65.5	18.6	54	12.2	1971
28	75.3	24.1	85.2	29.6	96	35.6	1960	65.5	18.6	58	14.4	1963
29	75.3	24.1	84.7	29.3	100	37.8	1964	65.9	18.8	55	12.8	1977
30	74.2	23.4	83.6	28.7	97	36.1	1962	64.9	18.3	56	13.3	1971
31	73.3	22.9	81.8	27.7	96	35.6	1970	64.8	18.2	56	13.3	1971
Monthly	75.2	24.0	84.9	29.4	106	41.1	1976*	65.6	18.7	51	10.6	1965

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

13025	ROTA, SPAIN	1959-1977	SEPTEMBER
STATION	STATION NAME	YEARS	MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP DATE
1	74.2	23.4	83.3	28.5	100	37.8	1970	65.2	18.4	54	12.2	1971
2	73.5	23.1	82.6	28.1	98	36.7	1970	64.4	18.0	52	11.1	1963
3	72.8	22.7	81.8	27.7	95	35.0	1971	63.7	17.6	49	9.4	1965
4	72.5	22.5	80.5	26.8	94	34.4	1970	64.7	18.2	51	10.6	1965
5	71.9	22.2	80.5	26.9	100	37.8	1966	63.4	17.4	54	12.2	1965
6	71.8	22.1	82.4	28.0	96	35.6	1966	61.3	16.3	46	7.8	1965
7	72.4	22.4	82.4	28.0	96	35.6	1964	62.4	16.9	47	8.3	1965
8	73.2	22.9	83.1	28.4	95	35.0	1964	63.2	17.3	52	11.1	1965
9	73.1	22.8	82.5	28.1	96	35.6	1966	63.7	17.6	56	13.3	1973*
10	73.0	22.8	82.5	28.1	98	36.7	1966	63.5	17.5	50	10.0	1965
11	71.9	22.2	80.3	26.8	88	31.1	1977*	63.6	17.6	49	9.4	1965
12	71.9	22.2	81.4	27.4	94	34.4	1962	62.4	16.9	48	8.9	1965
13	71.4	21.9	81.0	27.2	93	33.9	1962	61.7	16.5	48	8.9	1965
14	71.4	21.9	80.3	26.8	90	32.2	1962*	62.6	17.0	47	8.3	1965
15	70.5	21.4	78.6	25.9	94	34.4	1964	62.3	16.8	52	11.1	1965
16	70.0	21.1	78.8	26.0	94	34.4	1964	61.2	16.2	48	8.9	1975
17	70.0	21.1	79.9	26.6	106	41.1	1964	60.2	15.7	51	10.6	1965
18	70.2	21.2	79.3	26.3	93	33.9	1964	61.2	16.2	50	10.0	1975
19	69.8	21.0	79.3	26.3	98	36.7	1964	60.4	15.8	55	12.8	1969*
20	70.7	21.5	80.8	27.1	93	33.9	1970	60.6	15.9	52	11.1	1963
21	72.1	22.3	81.8	27.7	96	35.6	1970*	62.4	16.9	56	13.3	1969*
22	72.1	22.3	80.6	27.0	92	33.3	1964	63.6	17.6	53	11.7	1972
23	70.8	21.6	79.6	26.4	93	33.9	1964	62.1	16.7	54	12.2	1973*
24	71.2	21.8	80.7	27.1	93	33.9	1968	61.7	16.5	52	11.1	1972
25	70.9	21.6	79.7	26.5	95	35.0	1964	62.1	16.7	52	11.1	1973
26	71.7	22.1	80.6	27.0	95	35.0	1964	62.7	17.1	53	11.7	1973
27	70.8	21.6	79.1	26.2	91	32.8	1964	62.4	16.9	56	13.3	1973*
28	70.6	21.4	78.7	25.9	94	34.4	1968	62.5	16.9	54	12.2	1973
29	70.1	21.2	78.4	25.8	92	33.3	1971	61.8	16.6	54	12.2	1968
30	69.2	20.7	78.2	25.7	92	33.3	1971	60.2	15.7	50	10.0	1974
31												
Monthly	71.5	21.9	80.6	27.0	106	41.1	1964	62.4	16.9	46	7.8	1965

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

525 DAILY AVERAGE/EXTREME TEMP MAR 1978

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

13025	ROTA, SPAIN	1958-1977	OCTOBER
STATION	STATION NAME	YEARS	MONTH

	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
DAY	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	69.3	20.7	78.1	25.6	87	30.6	1977*	60.5	15.8	51	10.6	1973
2	68.9	20.5	78.1	25.6	92	33.3	1970	59.7	15.4	47	8.3	1973
3	68.6	20.3	78.5	25.8	93	33.9	1970	58.7	14.8	44	6.7	1973
4	68.5	20.3	76.9	24.9	85	29.4	1970*	60.1	15.6	47	8.3	1973
5	68.5	20.3	77.0	25.0	91	32.8	1964	59.9	15.5	49	9.4	1973
6	67.7	19.8	76.3	24.6	85	29.4	1976*	59.0	15.0	52	11.1	1973
7	67.5	19.7	76.9	24.9	87	30.6	1976	58.0	14.4	49	9.4	1958
8	68.3	20.2	76.3	24.6	84	28.9	1975	60.3	15.7	53	11.7	1958
9	67.8	19.9	76.1	24.5	87	30.6	1963	59.4	15.2	48	8.9	1966
10	67.9	19.9	75.7	24.3	84	28.9	1963	60.1	15.6	50	10.0	1970
11	66.9	19.4	75.3	24.1	82	27.8	1971*	58.6	14.8	51	10.6	1960
12	66.1	18.9	74.4	23.6	84	28.9	1971	57.9	14.4	50	10.0	1975*
13	67.2	19.6	75.5	24.2	92	33.3	1971	58.8	14.9	46	7.8	1975
14	66.0	18.9	74.0	23.3	83	28.3	1963	58.0	14.4	45	7.2	1974
15	66.0	18.9	74.4	23.6	83	28.3	1970*	57.6	14.2	49	9.4	1974
16	66.2	19.0	75.0	23.9	87	30.6	1958	57.4	14.1	46	7.8	1974
17	65.5	18.6	74.2	23.4	84	28.9	1964	56.9	13.8	46	7.8	1975
18	66.1	18.9	74.8	23.8	84	28.9	1967	57.4	14.1	49	9.4	1975
19	65.3	18.5	74.0	23.3	85	29.4	1964	56.6	13.7	48	8.9	1974
20	64.6	18.1	72.7	22.6	81	27.2	1964	56.4	13.6	48	9.4	1961
21	64.4	18.0	73.8	23.2	82	27.8	1963	55.0	12.8	47	8.3	1959
22	65.3	18.5	73.7	23.2	82	27.8	1973*	57.0	13.9	45	7.2	1970
23	64.4	18.0	73.9	23.3	81	27.2	1963	54.8	12.7	41	5.0	1970
24	65.0	18.3	72.5	22.5	82	27.8	1963	57.5	14.2	44	6.7	1970
25	64.7	18.2	72.4	22.4	81	27.2	1969	57.0	13.9	46	7.8	1974
26	64.0	17.8	72.4	22.4	77	25.0	1975*	55.6	13.1	46	7.8	1964
27	63.4	17.4	71.4	21.9	81	27.2	1971	55.4	13.0	44	6.7	1974
28	63.2	17.3	71.6	22.0	80	26.7	1971*	54.7	12.6	46	7.8	1966
29	62.8	17.1	71.0	21.7	79	26.1	1973	54.5	12.5	42	5.6	1966
30	62.6	17.0	70.4	21.3	79	26.1	1977	54.9	12.7	42	5.6	1966
31	61.7	16.5	70.2	21.2	79	26.1	1970	53.2	11.8	40	4.4	1974
Monthly	66.0	18.9	74.5	23.6	93	33.9	1970	57.5	14.2	40	4.4	1974

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

13025	ROTA, SPAIN	1958-1977	NOVEMBER
STATION	STATION NAME	YEARS	MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	62.2	16.8	71.7	22.1	82	27.8	1970	52.7	11.5	39	3.9	1966
2	62.0	16.7	70.1	21.2	83	28.3	1970	53.9	12.2	40	4.4	1966
3	61.1	16.2	69.0	20.6	81	27.2	1970	53.1	11.7	45	7.2	1966
4	61.8	16.6	69.5	20.8	83	28.3	1970	54.0	12.2	45	7.2	1970
5	60.4	15.8	68.0	20.0	83	28.3	1970	52.8	11.6	43	6.1	1970
6	59.2	15.1	66.4	19.1	76	24.4	1970	52.0	11.1	41	5.0	1974
7	58.7	14.8	66.5	19.2	76	24.4	1958	50.9	10.5	40	4.4	1974
8	59.5	15.3	68.1	20.1	78	25.6	1958	50.9	10.5	39	3.9	1971
9	59.5	15.3	67.0	19.4	77	25.0	1970	52.0	11.1	45	7.2	1974
10	58.7	14.8	67.1	19.5	76	24.4	1977	50.3	10.2	42	5.6	1974
11	59.7	15.4	67.0	19.4	75	23.9	1977	52.4	11.3	37	2.8	1971
12	60.0	15.6	67.7	19.8	78	25.6	1977	52.4	11.3	35	1.7	1971
13	58.8	14.9	66.7	19.3	82	27.8	1975	50.8	10.4	32	0.0	1971
14	58.3	14.6	66.7	19.3	79	26.1	1975	49.9	9.9	36	2.2	1971
15	57.2	14.0	66.0	18.9	83	28.3	1975	48.4	9.1	40	4.4	1961
16	57.3	14.1	65.9	18.8	74	23.3	1972	48.7	9.3	40	4.4	1959
17	57.3	14.1	64.8	18.2	71	21.7	1964	49.8	9.9	43	6.1	1976*
18	56.9	13.8	65.2	18.4	73	22.8	1964	48.6	9.2	40	4.4	1966
19	57.2	14.0	65.2	18.4	70	21.1	1977*	49.1	9.5	35	1.7	1975
20	57.7	14.3	66.0	18.9	74	23.3	1973	49.5	9.7	38	3.3	1962
21	58.2	14.6	66.8	19.3	74	23.3	1973	49.5	9.7	38	3.3	1976*
22	57.9	14.4	65.5	18.6	74	23.3	1973	50.3	10.2	38	3.3	1976
23	56.8	13.8	65.7	18.7	76	24.4	1972	47.9	8.8	37	2.8	1976
24	56.2	13.4	64.3	17.9	72	22.2	1973	48.1	8.9	38	3.3	1976*
25	57.3	14.1	65.2	18.4	71	21.7	1973*	49.4	9.7	35	1.7	1977
26	56.8	13.8	64.7	18.2	74	23.3	1974	48.9	9.4	34	1.1	1977
27	55.2	12.9	63.1	17.3	73	22.8	1974	47.3	8.5	37	2.8	1976*
28	54.8	12.7	62.7	17.1	73	22.8	1974	46.9	8.3	38	3.3	1975
29	54.4	12.4	62.3	16.8	72	22.2	1974	46.5	8.1	36	2.2	1971
30	53.7	12.1	61.0	16.1	68	20.0	1973	46.3	7.9	38	3.3	1963
31												
Monthly	58.2	14.6	66.2	19.0	83	28.3	1975*	50.1	10.1	32	0.0	1971

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

NAVAL WEATHER SERVICE DETACHMENT
ASHEVILLE, NORTH CAROLINA

DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

13025 — STATION | ROTA, SPAIN — STATION NAME | 1958-1977 — YEARS | DECEMBER — MONTH

DAY	MEAN TEMP AVERAGE °F	MEAN TEMP AVERAGE °C	MAXIMUM TEMP AVERAGE °F	MAXIMUM TEMP AVERAGE °C	MAXIMUM TEMP EXTREME °F	MAXIMUM TEMP EXTREME °C	MAXIMUM TEMP EXTREME DATE	MINIMUM TEMP AVERAGE °F	MINIMUM TEMP AVERAGE °C	MINIMUM TEMP EXTREME °F	MINIMUM TEMP EXTREME °C	MINIMUM TEMP EXTREME DATE
1	53.9	12.2	62.3	16.8	73	22.8	1974	45.4	7.4	38	3.3	1975*
2	54.7	12.6	62.2	16.8	69	20.6	1974	47.2	8.4	33	0.6	1969
3	54.5	12.5	62.5	16.9	70	21.1	1974	46.5	8.1	33	0.6	1969
4	53.9	12.2	62.2	16.8	73	22.8	1974	45.7	7.6	34	1.1	1973
5	54.1	12.3	62.5	16.9	68	20.0	1974	45.7	7.6	36	2.2	1973
6	54.6	12.6	62.4	16.9	68	20.0	1970	46.7	8.2	35	1.7	1972*
7	55.4	13.0	62.5	16.9	68	20.0	1974	48.4	9.1	41	5.0	1973*
8	54.1	12.3	61.3	16.3	70	21.1	1964	47.0	8.3	37	2.8	1969*
9	53.4	11.9	61.3	16.3	70	21.1	1976	45.6	7.6	32	0.0	1970
10	53.9	12.2	62.2	16.8	72	22.2	1976	45.5	7.5	37	2.8	1971
11	54.1	12.3	62.0	16.7	72	22.2	1976	46.3	7.9	35	1.7	1967
12	53.2	11.8	61.3	16.3	70	21.1	1977*	45.1	7.3	34	1.1	1967
13	53.1	11.7	60.7	15.9	67	19.4	1961	45.4	7.4	31	-0.6	1967
14	52.5	11.4	60.9	16.1	70	21.1	1977	44.0	6.7	33	0.6	1967
15	52.6	11.4	59.9	15.5	67	19.4	1961	45.3	7.4	34	1.1	1969
16	53.2	11.8	61.1	16.2	72	22.2	1977	45.4	7.4	34	1.1	1970
17	53.3	11.8	60.2	15.7	67	19.4	1977*	46.3	7.9	32	0.0	1970
18	53.3	11.8	60.6	15.9	65	18.3	1974	45.9	7.7	35	1.7	1967
19	53.2	11.8	61.6	16.4	67	19.4	1972*	44.8	7.1	34	1.1	1970
20	52.8	11.6	60.7	15.9	66	18.9	1977	44.8	7.1	36	2.2	1970*
21	52.5	11.4	60.3	15.7	67	19.4	1974	44.6	7.0	36	2.2	1970
22	52.7	11.5	60.9	16.1	67	19.4	1977*	44.5	6.9	37	2.8	1970
23	52.7	11.5	60.7	15.9	70	21.1	1977	44.6	7.0	34	1.1	1970
24	52.6	11.4	60.0	15.6	70	21.1	1977	45.2	7.3	30	-1.1	1970
25	51.5	10.8	58.9	14.9	72	22.2	1977	44.2	6.8	25	-3.9	1970
26	51.9	11.1	58.8	14.9	67	19.4	1977*	44.9	7.2	36	2.2	1970*
27	52.4	11.3	59.5	15.3	67	19.4	1977	45.3	7.4	32	0.0	1964
28	52.0	11.1	59.6	15.3	71	21.7	1974	44.4	6.9	32	0.0	1969
29	51.8	11.0	58.7	14.8	71	21.7	1974	45.0	7.2	36	2.2	1970
30	52.0	11.1	59.7	15.4	70	21.1	1974	44.3	6.8	33	0.6	1964
31	52.2	11.2	60.3	15.7	68	20.0	1966	44.1	6.7	33	0.6	1967
Monthly	53.2	11.8	60.9	16.1	73	22.8	1974	45.4	7.4	25	-3.9	1970

*ALSO ON EARLIER YEARS

DIRNAVOCEANMET—SMOS

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

13023 STATION — ROTA, SPAIN STATION NAME — 58-77 YEARS

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
58										87	78	66	
59	71	67	71	81	85	91	96	92	87	83	75	68	96
60	68	77	77	75	91	89	96	96	92	77	70	65	96
61	62	74	76	83	86	94	91	99	90	84	77	69	99
62	68	68	67	77	87	90	98	104	94	86	72	65	104
63	63	69	73	80	86	93	96	100	94	87	73	65	100
64	66	73	78	88	92	96	104	106	106	91	74	70	106
65	68	70	79	86	96	101	88	98	87	83	79	67	101
66	69	70	79	84	89	94	90	96	100	83	69	68	100
67	68	71	79	79	93	94	104	96	88	84		68	
68	72	66	69	76	85	95	94	93	93	85	72	69	95
69	70	64	72	80	86	93	96	95	82	81	76	63	96
70	69	74	76	84	90	89	101	96	100	93	83	68	101
71	66	77	77	76	81	98	97	94	95	92	75	66	98
72	63	65	74	79	89	90	94	95	86	81	76	67	95
73	65	69	73	82	91	93	103	105	93	84	78	66	105
74	68	68	70	73	91	94	100	99	87	87	75	73	100
75	70	70	67	72	76	91	108	101	87	84	83	68	108
76	68	71	74	70	87	94	102	106	87	87	70	72	106
77	66	72	77	85	89	90	91	92	94	87	79	72	94
MEAN	67.4	69.9	74.1	79.5	87.9	93.1	97.3	98.1	91.7	85.3	75.5	67.8	100.0
S. D.	2.733	4.007	3.943	4.982	4.496	3.107	5.417	4.564	5.898	3.840	4.005	2.593	4.325
TOTAL OBS.	589	537	589	570	589	570	589	589	570	620	570	620	7002

NAVWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

MAXIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 58-77 (YEARS)

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

MONTH / YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
67											70 29		MAX TEMP DAYS
MEAN													
S. D.													
TOTAL OBS.													

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196123

5723 Extreme Values Jan 1969

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

13025 ROTA, SPAIN 58-77
STATION STATION NAME YEARS

WHOLE DEGREES FAHRENHEIT

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
58										49	42	40	
59	37	39	42	45	47	54	60	60	57	44	40	36	36
60	31	33	46	45	51	60	59	59	57	49	41	36	31
61	35	42	42	49	54	54	61	64	58	49	40	43	35
62	41	38	43	48	48	56	58	60	56	53	38	30	30
63	33	35	39	44	50	54	54	56	52	48	38	35	33
64	35	34	42	42	52	55	60	59	60	45	40	32	32
65	32	33	37	44	52	52	51	51	46	56	38	37	32
66	40	40	38	44	47	54	57	58	58	41	38	35	35
67	31	41	39	43	51	58	62	59	55	49		31	
68	33	37	41	42	47	58	60	60	54	56	47	35	33
69	35	36	38	45	51	57	63	61	55	53	42	32	32
70	38	32	36	43	43	52	58	55	50	41	43	25	25
71	28	38	34	41	46	50	57	54	54	50	32	36	28
72	32	37	37	41	44	48	56	55	52	46	43	35	32
73	35	34	38	38	50	52	56	60	52	44	43	34	34
74	37	38	37	43	48	57	62	57	50	40	40	37	37
75	36	43	39	39	47	47	57	61	48	46	35	36	35
76	30	39	41	43	50	56	60	64	54	47	37	38	30
77	37	41	36	42	48	50	57	55	56	54	34	46	34
MEAN	34.5	37.4	39.2	43.2	48.7	53.9	58.3	58.3	53.9	48.0	39.5	35.5	32.4
S. D.	3.422	3.253	2.955	2.658	2.845	3.526	2.964	3.367	3.650	4.779	3.580	4.513	2.955
TOTAL OBS.	589	537	589	570	589	570	589	589	570	620	570	620	7002

NAVWEASERVCOM

5723 Extreme Values Jan 1969

EXTREME VALUES

MINIMUM TEMPERATURE
(FROM DAILY OBSERVATIONS)

13025 (STATION) ROTA, SPAIN (STATION NAME) 58-77 (YEARS)

WHOLE DEGREES FAHRENHEIT
/BASED ON LESS THAN FULL MONTHS/

YEAR \ MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
67											41 29		MIN TEMP DAYS
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5223 Extreme Values Jan 1969

196127

PSYCHROMETRIC SUMMARY

13025 STATION — ROTA, SPAIN STATION NAME — 73-77 YEARS — JAN MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
68/ 67					.2	.1		.1										4	4		
66/ 65			.3	.2	.2	.2	.6	.1										20	20		
64/ 63		.2	.5	.5	.5	.6	.4	.1										35	35	1	
62/ 61		1.0	1.5	2.1	1.9	1.0	.1											94	94	8	2
60/ 59	.3	2.4	2.7	3.6	2.2	.7	.1											149	149	36	17
58/ 57	.2	2.9	3.3	3.2	1.1	.2												137	137	68	31
56/ 55	.2	1.8	3.5	2.6	1.5	.1	.1											120	120	119	58
54/ 53	.7	2.7	3.0	2.3	.7	.1												118	118	169	75
52/ 51	.7	2.4	3.0	1.4	.3	.1	.1											99	99	159	115
50/ 49	.9	3.8	2.7	.6														99	99	140	142
48/ 47	.9	4.0	1.3	.2	.1	.2	.1											82	82	133	137
46/ 45	1.3	4.0	1.7	.3	.1													92	92	126	147
44/ 43	.9	3.6	1.5		.1													76	76	90	161
42/ 41	1.4	2.2	1.4	.1														62	62	77	113
40/ 39	.9	1.0	.3	.1	.1													29	29	64	92
38/ 37	.3	.6	.1															12	12	26	68
36/ 35	.1	.1	.5															8	8	12	32
34/ 33																				2	20
32/ 31		.2	.1	.1														4	4	7	8
30/ 29																				2	1
28/ 27																				1	7
26/ 25																					8
24/ 23																					2
22/ 21																					1
20/ 19																					2
16/ 15																					1
TOTAL	8.9	32.9	27.2	17.2	9.0	3.2	1.5	.2										1240	1240		1240
																				1240	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature ≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	7985736	98022	79.1	13.833	1240							
Dry Bulb	3493467	65245	52.6	6.986	1240		2.4	2.4				744.0
Wet Bulb	3030876	60860	49.1	5.947	1240		6.0					744.0
Dew Point	2657037	56827	45.8	6.525	1240		18.0					744.0

NAVWEASERVCOM

14218 2097-54321

PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION — ROTA, SPAIN STATION NAME — 73-77 YEARS — FEB MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
72/ 71					.1													1	1		
70/ 69						.1	.2											3	3		
68/ 67			.1		.1	.2	.1	.1	.3									9	9		
66/ 65		.1	.4	.1	.4	.5	.3											20	20		
64/ 63		.2	.4	.6	1.2	.8	.1	.1	.1									39	39	4	
62/ 61		1.0	1.1	1.1	1.9	.6	.6	.1										71	71	5	2
60/ 59		3.4	2.0	3.7	1.9	.9	.2											135	135	26	9
58/ 57	.3	2.4	3.7	5.3	2.0	.4	.3	.1										163	163	78	42
56/ 55	.5	4.4	5.2	3.5	.9	.7	.2											175	175	109	50
54/ 53	.6	3.2	3.9	2.5	1.2	.1	.1											130	130	191	77
52/ 51	1.0	3.2	3.2	1.9	.2	.1												107	107	189	117
50/ 49	.4	2.0	3.5	1.4	.1													84	84	157	154
48/ 47	.3	2.7	2.3	.4														64	64	113	137
46/ 45	.4	2.6	1.1	.4	.1													50	50	109	135
44/ 43	.2	1.3	1.3	.1														33	33	57	126
42/ 41	.1	.8	.8	.1														20	20	35	76
40/ 39		.4	1.0															16	16	27	74
38/ 37		.4	.1															5	5	16	52
36/ 35		.2	.1															3	3	8	31
34/ 33																				4	22
32/ 31																					13
30/ 29																					4
28/ 27																					6
26/ 25																					1
TOTAL	3.7	28.1	30.1	21.1	9.8	4.4	2.0	.4	.4										1128		1128
																		1128		1128	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.	6729187	85729	76.0	13.770	1128
Dry Bulb	3373333	61319	54.4	5.956	1128
Wet Bulb	2877201	56669	50.2	5.179	1128
Dew Point	2478169	52405	46.5	6.214	1128

Mean No. of Hours with Temperature

Element (X)	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.			7.7				672.0
Dry Bulb							672.0
Wet Bulb		14.3					672.0
Dew Point							

NAVWEASERVCOM 14278 2097-54321

5 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | MAR MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F) 0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
76/ 75							.2											2	2		
74/ 73							.2		.1									4	4		
72/ 71							.2	.4		.2								10	10		
70/ 69					.2	.2	.2	.5	.2	.2								18	18		
68/ 67				.1	.4	.5	.4	.2	.2									22	22		
66/ 65			.1	.2	.6	.8	.6	.2										31	31		
64/ 63		.2	.2	.9	1.2	1.3	.9	.2	.2									62	62	3	
62/ 61		.5	.8	1.5	2.7	1.0	.3	.2	.2									88	88	11	
60/ 59		1.5	2.6	2.7	3.0	1.5	.6	.2										150	150	28	6
58/ 57	.1	2.4	3.1	3.4	2.4	1.0	.6	.2										165	165	82	19
56/ 55	.2	3.4	5.0	4.0	2.0	.8	.2	.1										195	195	123	57
54/ 53	.1	2.7	3.9	2.7	.7	.2												129	129	187	82
52/ 51	.2	2.3	3.3	1.4	.3													93	93	220	96
50/ 49	.2	3.3	3.5	1.0	.2													102	102	174	150
48/ 47	.3	2.7	1.9	.2	.1		.1											66	66	158	183
46/ 45	.3	2.3	.9	.3	.1													48	48	127	187
44/ 43	.3	1.0	.6	.2	.1													26	26	63	147
42/ 41	.2	.9	.6	.1														22	22	31	100
40/ 39	.1	.2	.1															5	5	21	80
38/ 37		.1		.1														2	2	7	51
36/ 35																				4	39
34/ 33																					20
32/ 31																				1	9
30/ 29																					3
28/ 27																					5
26/ 25																					3
24/ 23																					2
16/ 15																					1
TOTAL	1.9	23.4	26.6	18.8	14.0	7.4	4.7	2.0	.9	.3								1240	1240	1240	1240

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.	6716780	89160	71.9	15.712	1240
Dry Bulb	3877806	68904	55.6	6.286	1240
Wet Bulb	3190641	62621	50.5	4.773	1240
Dew Point	2655874	56916	45.9	5.920	1240

Mean No. of Hours with Temperature	≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.							744.0
Dry Bulb			33.6	3.6			744.0
Wet Bulb		.6					744.0
Dew Point		13.8					744.0

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0105 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION — ROTA, SPAIN STATION NAME — 73-77 YEARS — APR MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
86/ 85												.1						1	1		
84/ 83														.1				1	1		
82/ 81											.1	.1						2	2		
80/ 79									.2	.2	.1		.1	.1				7	7		
78/ 77							.1	.2	.1	.1	.1	.1						7	7		
76/ 75						.1	.4	.2	.2	.2	.5							18	18		
74/ 73						.1		.2		.2	.2	.1						10	10		
72/ 71						.1	.2	.7	.3	.4								22	22		
70/ 69				.2	.3	.3	.3	.7	.2	.2	.1							28	28		
68/ 67				.3	.8	1.0	.2	.3	.3	.2								39	39	1	
66/ 65			.1	.8	1.9	1.2	1.2	.6		.2								72	72	4	
64/ 63		.2	.5	2.2	2.3	1.2	.8	.7	.2	.2								101	101	11	
62/ 61		.7	1.2	4.7	3.1	.7	.9	.2	.2									140	140	25	4
60/ 59		1.2	3.0	3.9	1.9	.9	.2	.2										137	137	61	9
58/ 57	.2	2.2	3.4	3.1	2.0	.7	.1	.3										144	144	124	25
56/ 55	.3	2.8	3.2	3.0	.5	.4		.1										125	125	215	72
54/ 53	.2	2.7	3.2	1.1	.8	.3												101	101	193	105
52/ 51	.2	2.8	2.0	1.0	.5	.3												82	82	169	164
50/ 49	.2	2.9	1.4	.3	.2	.2												64	64	156	188
48/ 47		1.9	.7	.6	.4													43	43	88	160
46/ 45	.1	1.2	.7	.3	.1													30	30	64	123
44/ 43	.1	.7	.3	.1														15	15	40	89
42/ 41		.3	.2	.1														8	8	28	71
40/ 39			.2															2	2	15	65
38/ 37				.1														1	1	2	35
36/ 35																				3	31
34/ 33																				1	17
32/ 31																					12
30/ 29																					10
28/ 27																					3
26/ 25																					15
24/ 23																					2
TOTAL	1.2	19.9	20.3	21.8	15.0	7.6	4.6	4.4	1.7	1.7	1.0	.3	.1	.2				1200	1200		1200

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	6011681	82257	68.5	17.641	1200							
Dry Bulb	4157187	70093	58.4	7.248	1200			81.0	27.6	3.6		720.0
Wet Bulb	3316763	62803	52.3	4.995	1200			.6				720.0
Dew Point	2699940	56378	47.0	6.535	1200		25.2					720.0

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PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | MAY MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
92/ 91												.1						1	1		
90/ 89														.1	.1			2	2		
88/ 87												.2	.2	.1	.1			7	7		
86/ 85										.1	.2			.2				5	5		
84/ 83										.3	.3	.4						13	13		
82/ 81								.1	.2	.2	.5		.1					13	13		
80/ 79								.2	.5	.3	.1	.2	.1					16	16		
78/ 77						.1	.2	.4	.2	.6		.1						19	19		
76/ 75					.1	.4	.8	.5	.5	.4	.2							35	35		
74/ 73					.2	.9	1.4	.6	.5	.2								45	45		
72/ 71				.1	1.4	2.1	1.3	.8	.1									71	71		
70/ 69				.8	1.6	1.8	1.3	.4	.2	.1								77	77	2	
68/ 67			.2	2.3	2.5	2.3	1.0	.7		.1								113	113	4	
66/ 65			1.9	4.6	3.1	1.9	.4	.4	.2									156	156	28	
64/ 63		.2	1.5	5.2	2.4	1.9	.5	.2	.1									150	150	92	1
62/ 61		.7	3.5	4.8	1.9	.3	.2	.2										144	144	163	13
60/ 59		1.3	3.6	3.5	1.5	.6												131	131	193	57
58/ 57		1.3	2.7	2.0	.4	.2	.3											87	87	225	118
56/ 55		1.0	2.0	1.1	.5	.2												61	61	191	192
54/ 53		1.2	1.6	.6	.2	.1												45	45	138	202
52/ 51		.7	1.0	.1	.2	.2												27	27	87	186
50/ 49		.4	.6	.3	.2													18	18	61	135
48/ 47		.2		.1	.1													4	4	29	124
46/ 45																				14	83
44/ 43																				7	40
42/ 41																				5	30
40/ 39																				1	16
38/ 37																					19
36/ 35																					9
34/ 33																					6
32/ 31																					9
TOTAL		7.1	18.7	25.5	16.0	13.1	7.4	4.4	2.4	2.3	1.2	1.0	.3	.3	.2				1240		1240
																		1240		1240	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5492509	80277	64.7	15.441	1240							
Dry Bulb	5209909	79857	64.4	7.356	1240			250.2	93.6	31.2		744.0
Wet Bulb	4044703	70539	56.9	4.608	1240			3.6				744.0
Dew Point	3298399	63581	51.3	5.558	1240		5.4					744.0

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PSYCHROMETRIC SUMMARY

13025 STATION — ROTA, SPAIN STATION NAME — 73-77 YEARS — JUN MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL Dry Bulb	TOTAL Wet Bulb	TOTAL Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31				
94/ 93										.1	.1		.1					3	3		
92/ 91													.1		.1			2	2		
90/ 89											.1	.2	.2	.2				7	7		
88/ 87									.1		.2	.2	.3	.1				10	10		
86/ 85								.2	.3	.2	.5	.6	.2					25	25		
84/ 83								.3	.9	.5	.5	.1						28	28		
82/ 81							.5	.8	.9	.2	.5	.3	.1					41	41		
80/ 79						.2	.5	1.6	.7	.2		.2						41	41		
78/ 77				.1	.3	1.1	1.7	.7	.2		.2							52	52		
76/ 75				.1	1.1	3.0	2.0	.5	.6	.2		.1						90	90	1	
74/ 73				.5	2.7	2.7	1.2	.8	.3	.1								100	100	1	
72/ 71			.4	2.0	4.1	2.5	1.2	.3	.2									129	129	5	
70/ 69			1.8	3.0	3.5	2.3	.8	.3	.2	.1								145	145	37	
68/ 67		.6	2.0	4.0	2.8	.8	.7	.1	.2	.1								136	136	96	3
66/ 65		.6	3.7	3.0	1.1	.7	.1	.1										112	112	197	31
64/ 63		1.2	3.5	3.4	1.2	.4			.1									118	118	221	95
62/ 61		1.2	2.3	1.5	.7			.1										70	70	222	118
60/ 59		.8	1.2	.7	.2													36	36	167	209
58/ 57		.6	1.1	.2														23	23	115	209
56/ 55		.9	.6															18	18	70	174
54/ 53	.2	.2	.2															7	7	45	119
52/ 51		.2	.3															6	6	11	90
50/ 49	.1																	1	1	11	55
48/ 47																				1	43
46/ 45																					21
44/ 43																					14
42/ 41																					6
40/ 39																					5
38/ 37																					2
36/ 35																					2
34/ 33																					3
32/ 31																					1
TOTAL	.2	6.2	17.3	18.6	17.7	13.8	8.7	5.8	4.8	1.7	2.0	1.6	1.0	.2	.1			1200	1200		1200

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.
Rel. Hum.	5312375	77487	64.6	16.049	1200
Dry Bulb	5952085	84055	70.0	7.327	1200
Wet Bulb	4601895	74141	61.8	4.200	1200
Dew Point	3858803	67753	56.5	5.278	1200

Mean No. of Hours with Temperature

Element (X)	≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.			485.4	239.4	81.6	1.8	720.0
Dry Bulb			84.0	1.2			720.0
Wet Bulb		.6	1.8				720.0
Dew Point							720.0

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5-6 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION — ROTA, SPAIN STATION NAME — 73-77 YEARS — JUL MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
106/105																	.2	2	2		
102/101																.1		1	1		
100/ 99															.3	.2		6	6		
98/ 97														.2	.4		.1	8	6		
96/ 95												.1	.2	.4	.2	.1	.1	12	12		
94/ 93											.1	.3	.2	.3				12	12		
92/ 91										.1	.3	.4	.7	.3		.1		24	24		
90/ 89									.1	.8	.9	.6	.3	.2	.1			36	36		
88/ 87								.2	.5	.6	1.4	.2		.1				36	36		
86/ 85							.1	1.0	.9	1.0	.6	.2	.2					50	50		
84/ 83							.9	.9	.6	.2	.4	.3	.2					44	44		
82/ 81						.8	1.8	2.1	.9	.2	.2	.1						75	75		
80/ 79				.1	.6	1.9	2.2	1.5	.8	.2	.2							92	92		
78/ 77				.2	1.9	1.8	2.4	1.0	.4	.1	.1							97	97		
76/ 75			.3	1.0	2.5	3.3	1.2	.6	.3									116	116	1	
74/ 73		.3	1.1	3.1	3.5	2.4	1.1	.2	.2	.1								149	149	21	
72/ 71		.5	1.0	2.8	3.0	1.7	.5	.2	.1									122	122	100	2
70/ 69		.2	2.3	4.2	1.6	.4	.5											114	114	194	22
68/ 67		1.0	2.9	2.9	.8	.6												102	102	219	61
66/ 65		1.1	1.8	1.6	.4	.2	.1											64	64	245	109
64/ 63	.1	1.2	.8	.5	.3													36	36	213	188
62/ 61	.1	.7	.9	.2	.2													26	26	128	222
60/ 59	.1	.6	.3	.1														13	13	72	208
58/ 57	.1	.2																3	3	33	169
56/ 55																				14	104
54/ 53																					56
52/ 51																					37
50/ 49																					30
48/ 47																					13
46/ 45																					7
44/ 43																					6
42/ 41																					4
40/ 39																					2

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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0105 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | JUL MONTH

PAGE 2 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
TOTAL	.3	5.9	11.5	16.8	14.8	13.0	10.7	7.7	4.8	3.3	4.2	2.2	1.8	1.5	1.0	.4	.3	1240	1240	1240	1240

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5066862	76152	61.4	17.699	1240							
Dry Bulb	7169002	93740	75.6	8.163	1240			658.8	456.0	205.2	24.6	744.0
Wet Bulb	5369773	81465	65.7	3.781	1240			321.0	13.2			744.0
Dew Point	4480017	74281	59.9	4.944	1240			51.0	.6			744.0

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5-6 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | AUG MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
104/103																	.2	2	2		
102/101																.1		1	1		
100/ 99																.2		2	2		
98/ 97																.1		1	1		
96/ 95											.1	.2	.2	.3	.2	.1		13	13		
94/ 93										.1		.5	.4	.3				16	16		
92/ 91										.3	.5	.6	.5	.1		.1		25	25		
90/ 89									.3	.7	.5	.2	.4	.2				29	29		
88/ 87							.1	.3	.9	1.1	.6	.5	.2					46	46		
86/ 85							.3	.7	.5	.3	.7	.2	.1	.2				38	38		
84/ 83						.3	1.3	1.6	1.3	.6	.3	.1						69	69		
82/ 81				.1	.4	1.2	1.8	1.8	.7	.2	.3	.1						82	82		
80/ 79				.5	2.1	2.0	1.9	1.6	.6	.2	.2							112	112		
78/ 77				.6	2.3	1.9	1.6	1.2	.6	.5	.1							108	108		
76/ 75		.2	.2	2.5	2.8	2.7	.9	.5	.4	.2								129	129	6	
74/ 73		.1	1.9	4.6	2.7	1.3	.8	.6	.3									152	152	55	
72/ 71		.4	2.8	2.5	1.0	1.2	1.4	.2										118	118	131	13
70/ 69		.6	1.3	1.3	1.5	1.7	.6	.1	.1									87	87	229	40
68/ 67	.1	.6	2.5	1.7	1.1	.9	.6											92	92	246	118
66/ 65		.6	1.9	.3	1.0	.7	.5											63	63	168	198
64/ 63		.3	.6	.6	.2	.4												26	26	126	144
62/ 61		.3		.3	.6	.2	.2											21	21	108	151
60/ 59		.1	.2	.2		.1												6	6	81	162
58/ 57			.1	.1														2	2	49	75
56/ 55																				16	77
54/ 53																				18	80
52/ 51																				5	66
50/ 49																				2	48
48/ 47																					24
46/ 45																					22
44/ 43																					12
42/ 41																					4
40/ 39																					4
38/ 37																					1

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

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PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | AUG MONTH

PAGE 2 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
36/ 35 TOTAL	.1	3.1	11.3	15.2	15.7	14.7	11.8	8.6	5.7	4.4	3.2	2.3	1.8	1.0	.2	.5	.2		1240		1 1240
																		1240		1240	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	4845426	74678	60.2	16.759	1240							
Dry Bulb	7262422	94418	76.1	7.681	1240			673.2	495.0	229.8	21.0	744.0
Wet Bulb	5430945	81861	66.0	4.645	1240			400.2	36.6			744.0
Dew Point	4521076	74450	60.0	6.420	1240			102.6	3.6			744.0

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5605 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | SEP MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
92/ 91													.1					1	1		
90/ 89										.1	.1	.5	.2					10	10		
88/ 87										.4	.2	.5		.1				14	14		
86/ 85								.1	.2	.6	.4		.1					17	17		
84/ 83							.1	.2	.6	.7	.5	.2	.1	.1				30	30		
82/ 81						.2	.7	.3	.7	.7	.5	.2		.1				41	41		
80/ 79					.3	.8	1.1	1.1	.4	.2	.4	.1	.1					55	55		
78/ 77				.3	1.2	.6	1.5	1.0	.9	.6								73	73		
76/ 75			.2	.2	2.2	3.3	1.5	1.7	.5	.2	.2							120	120		
74/ 73			.5	2.3	3.0	2.0	1.7	1.2	.2	.1		.1						134	134	1	
72/ 71		.4	1.1	3.1	3.1	2.2	1.7	.2	.2									144	144	21	
70/ 69		.7	3.1	3.4	2.0	1.5	.7	.6										144	144	72	9
68/ 67	.2	.8	3.1	2.4	1.7	.5	.4	.3	.1									115	115	155	31
66/ 65		1.8	1.7	1.6	1.1	.8	.2	.1	.2		.1							91	91	231	72
64/ 63	.2	1.4	1.0	1.1	1.1	.4			.1									63	63	208	148
62/ 61	.2	1.2	1.2	1.1	.7	.2	.1	.1										58	58	167	151
60/ 59	.2	1.5	.6	1.0	.6	.1	.1											48	48	139	169
58/ 57		.3	.7	.6	.1	.2	.1											23	23	69	124
56/ 55		.2	.1	.3	.1	.2												11	11	58	122
54/ 53			.1	.1														2	2	36	104
52/ 51		.1	.1			.1												3	3	16	75
50/ 49			.1	.2														3	3	13	72
48/ 47																				7	34
46/ 45																				6	30
44/ 43																				1	22
42/ 41																					8
40/ 39																					11
38/ 37																					3
36/ 35																					3
34/ 33																					6
32/ 31																					3
28/ 27																					2
22/ 21																					1

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

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5 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | SEP MONTH

PAGE 2 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
TOTAL	.7	8.5	13.5	17.7	17.1	13.2	9.7	6.9	4.2	3.7	2.3	1.6	.5	.2				1200	1200	1200	1200

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	5242951	76583	63.8	17.218	1200							
Dry Bulb	6114800	85236	71.0	7.102	1200			538.8	297.0	82.8		720.0
Wet Bulb	4729613	75113	62.6	4.830	1200			149.4	.6			720.0
Dew Point	3949987	68365	57.0	6.783	1200		3.6	24.0				720.0

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5135 PSYCHROMETRIC SUMMARY JAN 68

1428 2097-84321

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | OCT MONTH

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
86/ 85												.2	.1					3	3		
84/ 83									.1		.2		.2					5	5		
82/ 81							.1	.5	.2	.2								12	12		
80/ 79							.2	.4		.2	.1							12	12		
78/ 77					.1	.1	.4	.3	.3	.1								16	16		
76/ 75					.2	.7	.8	1.0	.2	.1								37	37		
74/ 73				.3	.4	1.1	1.6	.6		.2								53	53		
72/ 71		.2	.2	.9	2.1	1.2	1.0	.3	.1	.1	.1							76	76		
70/ 69		.1	.6	1.6	3.3	1.5	.8	.4	.2	.1								107	107	7	1
68/ 67		.9	1.9	2.1	2.7	3.4	.5		.2	.1								145	145	30	2
66/ 65	.3	1.5	2.7	4.1	2.4	1.4	.5	.1	.1	.1								163	163	77	20
64/ 63	.2	2.5	1.9	4.0	1.9	1.0	.1		.1									143	143	134	51
62/ 61		1.4	2.0	3.1	1.9	.4	.2											111	111	199	80
60/ 59	.1	2.3	1.8	2.5	.6	.2	.2											95	95	168	113
58/ 57	.3	2.3	2.3	1.2	.5	.2	.2	.1										87	87	188	120
56/ 55	.2	1.5	1.2	1.0	.3	.1												53	53	142	166
54/ 53	.1	1.9	1.1	.1	.2													42	42	106	167
52/ 51	.2	1.4	.6	.1	.2	.1												31	31	66	168
50/ 49		1.0	.4	.2	.3	.1												25	25	50	128
48/ 47	.1	.5	.4		.2	.1												15	15	32	66
46/ 45	.3		.1		.1													6	6	20	58
44/ 43		.1		.1														2	2	10	30
42/ 41																				4	18
40/ 39				.1														1	1	4	13
38/ 37																				2	10
36/ 35																				1	7
34/ 33																					4
32/ 31																					5
30/ 29																					5
28/ 27																					4
26/ 25																					4
TOTAL	1.9	17.3	17.1	21.3	17.3	11.5	6.6	3.7	1.5	1.1	.3	.2	.2						1240		1240
																		1240		1240	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	6375109	86651	69.9	16.069	1240							
Dry Bulb	5171090	79576	64.2	7.207	1240			279.6	82.8	16.8		744.0
Wet Bulb	4196405	71821	57.9	5.429	1240			22.2				744.0
Dew Point	3573780	66058	53.3	6.644	1240		10.8	1.8				744.0

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1278 2067-54321

05 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | NOV MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
84/ 83														.1				1	1		
82/ 81											.1							1	1		
80/ 79										.1								1	1		
78/ 77					.1			.1	.2	.1								5	5		
76/ 75			.1				.1			.1	.1	.1						5	5		
74/ 73						.3	.4	.1	.1		.2							13	13		
72/ 71					.5	.8	.3	.1	.2									23	23	1	
70/ 69			.1	.2	.6	.9	.4	.4		.2	.1							36	36	1	1
68/ 67		.1	.1	.7	.4	1.0	.9	.3	.2									44	44		
66/ 65		.2	1.5	2.3	1.6	1.5	.5	.2	.1	.1								96	96	3	1
64/ 63	.1	1.3	2.3	2.7	1.8	1.2	.3	.2	.3									123	123	34	6
62/ 61	.1	1.9	2.2	3.4	1.0	.8	.2	.2										120	120	66	22
60/ 59	.2	2.7	2.7	2.2	.7	.9	.1	.2										116	116	123	42
58/ 57	.1	1.9	3.1	2.7	1.3	.2	.2											116	116	148	78
56/ 55	.2	3.0	3.7	1.2	.7	.7	.1											116	116	148	114
54/ 53	.4	2.4	2.8	1.1	1.1	.3												98	98	135	121
52/ 51	.4	2.2	2.1	.5	.4	.2												69	69	149	137
50/ 49	.2	2.4	1.9	1.0	.3	.1												72	72	112	118
48/ 47	.1	1.4	1.0	.7	.3	.1												43	43	69	137
46/ 45	.2	1.2	.6	1.2	.3													42	42	76	98
44/ 43	.2	.9	.6	.7	.1													31	31	42	81
42/ 41	.2	.4	.5	.2	.1													17	17	37	46
40/ 39		.2	.4	.1														9	9	25	48
38/ 37			.2															2	2	21	32
36/ 35		.1																1	1	7	36
34/ 33																				3	27
32/ 31																					27
30/ 29																					16
28/ 27																					8
26/ 25																					4
TOTAL	2.5	22.5	25.9	20.8	11.5	9.2	3.7	1.7	1.0	.6	.4	.1		.1				1200	1200		1200
																				1200	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	6605282	86916	72.4	16.078	1200							
Dry Bulb	4086314	69430	57.9	7.597	1200			77.4	15.6	1.2		720.0
Wet Bulb	3383092	63264	52.7	6.314	1200			1.2				720.0
Dew Point	2863005	57879	48.2	7.714	1200		33.0	.6				720.0

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5-5 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION — ROTA, SPAIN STATION NAME — 73-77 YEARS — DEC MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
74/ 73									.1									1	1		
72/ 71						.1	.2	.1										4	4		
70/ 69				.1	.5	.1	.1	.1										10	10		
68/ 67				.3	.1	.2	.2	.3										15	15		
66/ 65		.5	.5	.5	.8	.4	.4	.4										43	43		
64/ 63	.2	2.6	1.0	1.0	.6	1.1	.2	.2										84	84	17	6
62/ 61	.2	3.5	1.9	.8	1.5	.8	.3											112	112	51	25
60/ 59	.2	3.9	3.2	3.2	2.5	.5	.2											169	169	82	43
58/ 57	.1	2.8	3.4	2.4	.9	.2												122	122	96	79
56/ 55	.1	2.0	2.8	2.6	1.0													106	106	125	82
54/ 53	.2	3.3	3.5	2.3	.2													117	117	146	81
52/ 51		2.7	3.4	1.2	.3													94	94	159	87
50/ 49	.4	3.1	3.2	.6	.1													92	92	128	127
48/ 47	.2	2.9	2.9	.6	.2													84	84	122	144
46/ 45	.2	2.7	3.0	.2	.1													76	76	98	138
44/ 43	.4	2.9	.9	.2														54	54	81	113
42/ 41	.6	1.5	.5		.1													32	32	78	117
40/ 39	.2	.7	.2	.1	.1													16	16	30	93
38/ 37		.1	.2	.3														7	7	14	56
36/ 35		.1																1	1	6	18
34/ 33		.1																1	1	3	14
32/ 31																				4	4
30/ 29																					5
28/ 27																					1
26/ 25																					1
24/ 23																					2
22/ 21																					4
TOTAL	2.8	35.3	30.5	16.2	9.0	3.5	1.5	1.0	.1										1240		1240
																		1240		1240	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Rel. Hum.	7750822	96664	78.0	13.185	1240							
Dry Bulb	3770302	67820	54.7	7.015	1240			18.0	.6			744.0
Wet Bulb	3260023	63105	50.9	6.259	1240		2.4					744.0
Dew Point	2858938	58896	47.5	7.049	1240		10.2					744.0

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0-5 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | ALL MONTH

PAGE 1 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥31		Dry Bulb	Wet Bulb	Dew Point
106/105																	.0	2	2		
104/103																	.0	2	2		
102/101																.0		2	2		
100/ 99															.0	.0		8	8		
98/ 97														.0	.0	.0	.0	9	9		
96/ 95											.0	.0	.0	.1	.0	.0	.0	25	25		
94/ 93										.0	.0	.1	.1	.1				31	31		
92/ 91										.0	.1	.1	.1	.0	.0	.0		53	53		
90/ 89									.0	.1	.1	.1	.1	.0	.0			84	84		
88/ 87							.0	.0	.1	.2	.2	.1	.1	.0	.0			113	113		
86/ 85							.0	.2	.2	.2	.2	.1	.1	.0				139	139		
84/ 83						.0	.2	.3	.3	.2	.2	.1	.0	.0				191	191		
82/ 81				.0	.0	.2	.4	.5	.3	.2	.2	.1	.0	.0				267	267		
80/ 79				.0	.3	.4	.5	.5	.3	.1	.1	.0	.0	.0				336	336		
78/ 77				.1	.5	.5	.7	.4	.2	.2	.0	.0						377	377		
76/ 75		.0	.1	.3	.7	1.1	.7	.4	.2	.1	.1	.0						552	552	8	
74/ 73		.0	.3	.9	1.0	.9	.7	.4	.2	.1	.0	.0						661	661	78	
72/ 71		.1	.5	1.0	1.3	1.0	.7	.3	.1	.1	.0							720	720	258	15
70/ 69		.1	.8	1.2	1.3	.9	.5	.3	.1	.1	.0							769	769	542	73
68/ 67	.0	.3	1.1	1.4	1.2	1.0	.4	.2	.1	.0								836	836	751	215
66/ 65	.0	.5	1.4	1.6	1.2	.9	.4	.2	.0	.0	.0							931	931	953	431
64/ 63	.1	1.0	1.2	1.9	1.2	.9	.3	.1	.1	.0								980	980	1064	639
62/ 61	.0	1.2	1.6	2.0	1.5	.5	.3	.1	.0									1055	1055	1153	790
60/ 59	.1	1.8	2.0	2.3	1.2	.5	.1	.0										1185	1185	1176	1044
58/ 57	.1	1.6	2.2	2.0	.9	.3	.2	.1										1072	1072	1275	1089
56/ 55	.2	1.7	2.3	1.6	.6	.3	.0	.0										980	980	1330	1268
54/ 53	.2	1.7	1.9	1.0	.4	.1	.0											789	789	1364	1269
52/ 51	.2	1.5	1.6	.6	.2	.1	.0											611	611	1230	1338
50/ 49	.2	1.6	1.4	.5	.1	.0												560	560	1004	1347
48/ 47	.2	1.3	.9	.2	.1	.0	.0											401	401	752	1202
46/ 45	.2	1.2	.7	.2	.1													344	344	640	1049
44/ 43	.2	.9	.4	.1	.0													237	237	391	841
42/ 41	.2	.5	.3	.0	.0													161	161	295	593
40/ 39	.1	.2	.2	.0	.0													78	78	187	503

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
Rel. Hum.						≤0 F	≤32 F	≥67 F	≥73 F	≥80 F	≥93 F	Total
Dry Bulb												
Wet Bulb												
Dew Point												

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5[redacted]5 PSYCHROMETRIC SUMMARY JAN 68

PSYCHROMETRIC SUMMARY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 YEARS | ALL MONTH

 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31		Dry Bulb	Wet Bulb	Dew Point
38/ 37	.0	.1	.0	.0														29	29	88	329
36/ 35	.0	.0	.0															13	13	41	209
34/ 33		.0																1	1	13	139
32/ 31		.0	.0	.0														4	4	12	91
30/ 29																				2	44
28/ 27																				1	36
26/ 25																					36
24/ 23																					8
22/ 21																					6
20/ 19																					2
16/ 15																					2
TOTAL	2.0	17.5	20.8	19.2	13.9	9.6	6.1	3.9	2.3	1.6	1.2	.8	.5	.3	.1	.1	.0		14608		14608
																		14608		14608	

Element (X)	ΣX^2	ΣX	$\bar{X}$	σ_x	No. Obs.	Mean No. of Hours with Temperature						
						≤ 0 F	≤ 32 F	≥ 67 F	≥ 73 F	≥ 80 F	≥ 93 F	Total
Rel. Hum.	74132720	1010576	69.2	17.000	14608							
Dry Bulb	59637717	919693	63.0	10.900	14608		2.4	3106.1	1711.2	652.2	47.4	8760.0
Wet Bulb	47431930	824312	56.4	7.923	14608		9.0	982.2	51.6			8760.0
Dew Point	39895025	753789	51.6	8.268	14608		134.9	181.8	4.2			8760.0

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DD 5 PSYCHROMETRIC SUMMARY JAN 68

MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	50.2	52.2	53.1	55.0	60.9	66.1	71.6	72.5	67.6	61.0	55.0	52.2	59.8
	S. D.	5.710	4.718	4.104	4.133	4.298	4.146	4.546	4.158	4.358	5.032	5.752	6.039	9.033
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
04	MEAN	48.5	50.4	50.4	52.4	58.5	63.8	68.8	69.8	65.0	59.0	53.0	50.9	57.6
	S. D.	6.334	5.541	4.472	4.826	4.814	4.632	4.513	4.273	4.827	5.707	6.546	6.559	9.076
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
07	MEAN	47.1	49.3	48.7	50.8	57.3	62.8	67.3	67.7	62.9	57.5	51.5	49.9	56.1
	S. D.	6.910	6.061	5.054	5.289	5.128	4.755	4.455	4.387	4.916	6.279	6.913	6.930	9.169
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
10	MEAN	49.2	52.3	54.8	59.5	66.6	72.5	77.8	77.9	72.7	64.6	55.8	52.0	63.0
	S. D.	6.266	4.655	3.834	5.024	5.842	5.617	6.058	5.444	4.450	5.261	6.535	6.679	11.441
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
13	MEAN	58.1	59.2	61.3	64.6	70.6	76.2	82.4	83.3	78.2	70.8	64.8	59.9	69.2
	S. D.	4.099	3.619	4.727	6.346	6.865	6.408	7.467	6.628	5.453	5.850	5.200	5.061	10.492
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
16	MEAN	60.4	60.5	62.2	65.3	70.9	76.8	83.4	84.1	78.3	71.2	66.1	61.8	70.1
	S. D.	3.595	3.792	4.982	6.288	6.610	5.805	7.223	6.354	5.111	5.745	5.173	4.752	10.064
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
19	MEAN	55.4	57.2	59.0	62.2	67.7	73.9	80.0	79.9	74.1	66.1	59.8	56.7	66.1
	S. D.	3.623	3.109	3.453	4.845	5.433	5.582	6.314	5.193	4.070	4.872	4.441	4.156	9.837
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
22	MEAN	52.1	53.7	55.0	57.5	62.7	68.2	73.4	74.1	69.5	63.2	56.8	54.1	61.7
	S. D.	5.134	4.014	3.164	4.086	3.788	3.988	4.589	4.036	3.523	4.650	5.016	5.089	8.763
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
ALL HOURS	MEAN	52.6	54.4	55.6	58.4	64.4	70.0	75.6	76.1	71.0	64.2	57.9	54.7	63.0
	S. D.	6.986	5.956	6.297	7.249	7.357	7.328	8.163	7.681	7.103	7.208	7.598	7.016	10.900
	TOTAL OBS	1240	1128	1240	1200	1240	1200	1240	1240	1200	1240	1200	1240	14608

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5707 MEANS AND STANDARD DEVIATIONS JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	47.7	49.0	49.3	50.6	55.4	60.2	64.4	65.1	61.7	56.5	51.4	49.4	55.1
	S. D.	5.397	4.794	4.176	3.878	3.663	3.441	2.907	3.939	4.262	4.842	6.007	5.914	7.613
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
04	MEAN	46.4	47.9	47.4	48.9	53.7	58.7	62.8	63.2	59.6	55.0	49.8	48.4	53.5
	S. D.	5.926	5.398	4.278	4.727	4.310	3.918	3.330	4.557	5.022	5.387	6.477	6.439	7.824
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
07	MEAN	45.3	47.0	46.2	47.8	53.2	58.4	61.9	61.8	58.3	54.0	48.6	47.6	52.5
	S. D.	6.531	5.845	4.885	5.153	4.630	3.995	3.557	4.583	5.220	5.879	6.831	6.833	8.073
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
10	MEAN	46.9	49.1	50.3	53.5	58.0	62.8	66.6	66.5	63.3	58.2	51.6	49.2	56.4
	S. D.	6.150	4.781	3.945	4.203	4.070	3.402	3.049	4.138	4.265	4.889	6.449	6.678	8.383
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
13	MEAN	52.5	53.2	53.4	55.3	59.6	64.3	68.2	68.6	65.4	60.9	56.4	54.3	59.4
	S. D.	4.402	3.866	3.831	3.898	3.781	3.402	3.047	3.915	3.685	4.545	4.645	4.825	7.030
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
16	MEAN	53.7	53.6	54.1	55.9	59.9	64.7	68.5	68.7	65.6	61.2	56.9	55.0	59.8
	S. D.	3.712	3.656	3.598	3.766	3.794	3.291	2.827	3.729	3.532	4.417	4.313	4.348	6.710
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
19	MEAN	51.0	52.1	52.7	54.5	58.9	63.7	67.6	68.0	64.2	59.4	54.4	52.5	58.3
	S. D.	4.118	3.925	3.420	3.430	3.649	3.278	2.462	3.475	3.269	4.128	4.855	4.734	7.104
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
22	MEAN	49.1	50.1	50.7	52.3	56.7	61.5	65.6	66.3	62.7	58.0	52.8	50.8	56.4
	S. D.	4.926	4.572	3.645	3.878	3.227	3.272	2.646	3.608	3.686	4.594	5.332	5.419	7.334
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
ALL HOURS	MEAN	49.1	50.2	50.5	52.3	56.9	61.8	65.7	66.0	62.6	57.9	52.7	50.9	56.4
	S. D.	5.948	5.180	4.773	4.995	4.608	4.201	3.782	4.645	4.831	5.429	6.315	6.259	7.923
	TOTAL OBS	1240	1128	1240	1200	1240	1200	1240	1240	1200	1240	1200	1240	14608

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5707 MEANS AND STANDARD DEVIATIONS JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	45.4	46.0	45.6	46.4	50.9	56.1	60.0	60.5	57.5	52.9	48.0	46.7	51.4
	S. D.	6.151	5.807	5.924	6.233	5.387	5.114	5.088	6.162	6.420	6.195	7.669	6.668	8.277
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
04	MEAN	44.4	45.4	44.5	45.5	49.8	55.1	58.9	58.9	55.6	51.8	46.8	46.0	50.3
	S. D.	6.372	6.117	5.595	6.410	5.460	5.428	5.014	6.792	7.146	6.625	7.733	7.100	8.329
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
07	MEAN	43.5	44.7	43.8	44.9	49.7	55.3	58.4	58.0	54.7	51.1	45.8	45.3	49.6
	S. D.	7.113	6.467	5.875	6.576	5.666	5.222	4.929	6.485	7.140	6.902	8.138	7.578	8.537
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
10	MEAN	44.6	46.2	46.0	48.3	51.5	56.5	60.0	59.8	57.1	53.5	47.6	46.5	51.5
	S. D.	7.083	5.904	5.908	6.262	5.722	5.503	4.860	6.727	6.930	6.679	8.198	7.625	8.500
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
13	MEAN	47.6	47.8	46.6	47.6	51.7	56.9	60.1	60.3	57.4	53.9	49.5	49.5	52.4
	S. D.	6.321	6.034	6.030	6.778	5.734	5.149	4.992	6.735	6.921	6.912	7.184	6.452	7.977
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
16	MEAN	47.8	47.5	47.1	47.9	52.0	57.4	60.2	59.9	57.6	54.2	49.3	49.4	52.6
	S. D.	6.004	6.448	5.727	6.701	5.674	4.933	4.774	6.522	6.486	6.796	7.626	6.625	7.905
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
19	MEAN	47.1	47.4	47.0	47.8	52.4	57.3	60.5	61.3	57.7	54.5	49.7	48.7	52.6
	S. D.	5.897	6.239	5.839	6.231	5.243	5.144	4.703	5.618	6.218	5.956	7.203	6.450	7.884
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
22	MEAN	46.3	46.7	46.7	47.6	52.2	57.1	61.1	61.7	58.1	54.2	49.3	47.9	52.4
	S. D.	5.870	6.176	5.726	6.376	4.992	5.323	4.779	5.516	6.369	6.374	7.139	6.628	8.174
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
ALL HOURS	MEAN	45.8	46.5	45.9	47.0	51.3	56.5	59.9	60.0	57.0	53.3	48.2	47.5	51.6
	S. D.	6.525	6.214	5.921	6.535	5.559	5.279	4.944	6.421	6.784	6.645	7.715	7.049	8.269
	TOTAL OBS	1240	1128	1240	1200	1240	1200	1240	1240	1200	1240	1200	1240	14608

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5707 MEANS AND STANDARD DEVIATIONS JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | JAN MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	01	100.0	100.0	100.0	100.0	100.0	98.1	91.0	61.9	32.9	84.2	155
	04	100.0	100.0	100.0	100.0	100.0	98.7	94.2	67.1	37.4	86.2	155
	07	100.0	100.0	100.0	100.0	100.0	98.7	92.9	78.1	45.2	87.8	155
	10	100.0	100.0	100.0	100.0	99.4	98.1	91.0	66.5	31.6	84.8	155
	13	100.0	100.0	100.0	99.4	95.5	72.9	43.9	16.1	5.2	69.3	155
	16	100.0	100.0	100.0	96.8	81.9	60.6	31.6	12.3	3.2	64.6	155
	19	100.0	100.0	100.0	99.4	97.4	87.1	62.6	32.3	6.5	74.4	155
	22	100.0	100.0	100.0	100.0	100.0	96.1	81.9	52.3	22.6	81.2	155
TOTALS		100.0	100.0	100.0	99.5	96.8	88.8	73.6	48.3	23.1	79.1	1240

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5706 RELATIVE HUMIDITY JAN 68

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RELATIVE HUMIDITY

13025 ROTA, SPAIN 73-77 FEB

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01	100.0	100.0	100.0	100.0	100.0	97.2	81.6	45.4	15.6	80.0	141
	04	100.0	100.0	100.0	100.0	100.0	99.3	87.9	58.2	24.8	83.3	141
	07	100.0	100.0	100.0	100.0	100.0	100.0	90.8	68.1	27.7	84.8	141
	10	100.0	100.0	100.0	100.0	100.0	99.3	81.6	46.1	17.0	80.4	141
	13	100.0	100.0	100.0	96.5	90.1	66.0	37.6	16.3	5.0	67.0	141
	16	100.0	100.0	98.6	94.3	79.4	58.9	32.6	14.9	3.5	64.0	141
	19	100.0	100.0	100.0	98.6	92.2	78.0	49.6	22.7	4.3	70.8	141
	22	100.0	100.0	100.0	100.0	98.6	92.2	70.9	38.3	11.3	77.7	141
TOTALS		100.0	100.0	99.8	98.7	95.0	86.4	66.6	38.8	13.7	76.0	1128

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5706 RELATIVE HUMIDITY JAN 68

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RELATIVE HUMIDITY

13025 ROTA, SPAIN 73-77 MAR

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	01	100.0	100.0	100.0	99.4	94.8	87.7	72.9	43.9	10.3	76.8	155
	04	100.0	100.0	100.0	99.4	98.1	91.6	84.5	54.8	21.9	81.0	155
	07	100.0	100.0	100.0	99.4	98.7	97.4	90.3	63.9	30.3	84.0	155
	10	100.0	100.0	99.4	98.7	96.1	86.5	56.8	30.3	6.5	73.3	155
	13	100.0	100.0	98.1	94.2	72.3	45.2	21.3	9.0	.6	60.1	155
	16	100.0	100.0	96.8	91.0	73.5	44.5	20.0	9.7	1.3	59.4	155
	19	100.0	100.0	99.4	96.1	85.8	65.2	37.4	16.8	.6	65.8	155
	22	100.0	100.0	100.0	98.7	94.2	87.1	67.7	31.6	7.7	74.7	155
TOTALS		100.0	100.0	99.2	97.1	89.2	75.7	56.4	32.5	9.9	71.9	1240

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5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (PERIOD) APR (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01	100.0	100.0	98.7	98.0	92.0	82.0	66.7	40.0	9.3	74.6	150
	04	100.0	100.0	99.3	98.7	96.7	88.0	74.7	50.0	14.0	78.4	150
	07	100.0	100.0	99.3	99.3	98.7	89.3	82.0	62.0	24.0	81.2	150
	10	100.0	100.0	99.3	96.7	85.3	67.3	46.0	22.7	5.3	68.2	150
	13	100.0	98.7	91.3	78.7	65.3	48.7	20.0	8.0	1.3	57.1	150
	16	100.0	98.7	91.3	80.7	64.0	47.3	14.7	6.0	2.7	56.1	150
	19	100.0	100.0	95.3	88.0	76.0	61.3	28.0	8.7	.7	61.6	150
	22	100.0	100.0	98.7	95.3	90.0	78.7	56.7	27.3	6.0	71.2	150
TOTALS		100.0	99.7	96.7	91.9	83.5	70.3	48.6	28.1	7.9	68.6	1200

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5706 RELATIVE HUMIDITY JAN 68

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RELATIVE HUMIDITY

13025 STATION | ROTA, SPAIN STATION NAME | 73-77 PERIOD | MAY MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	96.8	91.0	79.4	63.2	23.9	2.6	71.1	155
	04	100.0	100.0	100.0	98.7	95.5	88.4	67.1	29.0	1.9	73.9	155
	07	100.0	100.0	99.4	99.4	96.8	92.3	75.5	36.1	6.5	76.7	155
	10	100.0	100.0	97.4	92.9	73.5	55.5	22.6	3.9		60.2	155
	13	100.0	98.1	93.5	80.6	63.9	31.0	9.7	1.9	.6	53.4	155
	16	100.0	98.7	93.5	80.0	64.5	29.0	9.0	1.9		53.3	155
	19	100.0	100.0	98.1	89.0	81.3	51.6	16.8	2.6	.6	59.5	155
	22	100.0	100.0	100.0	94.8	90.3	81.3	56.8	16.1	.6	69.8	155
TOTALS		100.0	99.6	97.7	91.5	82.1	63.6	40.1	14.4	1.6	64.7	1240

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5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 ROTA, SPAIN 73-77 JUN

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	01	100.0	100.0	100.0	97.3	91.3	80.0	62.0	30.7	.7	71.7	150
	04	100.0	100.0	100.0	98.0	92.7	85.3	70.7	44.0	4.7	75.0	150
	07	100.0	100.0	99.3	98.7	95.3	92.0	76.7	47.3	11.3	77.7	150
	10	100.0	100.0	96.7	88.7	73.3	56.0	19.3	4.7	1.3	59.2	150
	13	100.0	100.0	90.0	82.7	68.0	31.3	5.3			53.2	150
	16	100.0	99.3	93.3	85.3	63.3	28.0	4.0			52.7	150
	19	100.0	100.0	95.3	89.3	77.3	51.3	14.7	2.0		58.0	150
	22	100.0	100.0	99.3	94.0	88.7	82.7	55.3	19.3		69.1	150
TOTALS		100.0	99.9	96.7	91.8	81.2	63.3	38.5	18.5	2.3	64.6	1200

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5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 ROTA, SPAIN 73-77 JUL

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	100.0	100.0	98.1	94.8	83.2	71.0	55.5	29.7	3.2	69.1	155
	04	100.0	100.0	99.4	96.1	91.0	80.0	61.9	36.1	7.7	72.4	155
	07	100.0	100.0	100.0	98.1	94.2	85.2	66.5	39.4	10.3	74.7	155
	10	100.0	100.0	96.8	83.9	63.9	41.9	23.2	5.8		56.6	155
	13	100.0	98.1	86.5	72.3	52.3	23.9	5.2	1.3		49.5	155
	16	100.0	96.8	86.5	68.4	47.1	19.4	4.5	.6		47.9	155
	19	100.0	99.4	89.7	81.3	67.7	36.1	7.1			53.8	155
	22	100.0	100.0	96.8	94.2	85.2	76.1	53.5	15.5	.6	67.3	155
TOTALS		100.0	99.3	94.2	86.1	73.1	54.2	34.7	16.1	2.7	61.4	1240

NAVWEASERVCOM

5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (PERIOD) AUG (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	01	100.0	100.0	100.0	95.5	85.2	68.4	51.0	20.6		67.7	155
	04	100.0	100.0	100.0	97.4	90.3	71.6	53.5	31.6	1.3	69.8	155
	07	100.0	100.0	100.0	98.7	92.3	81.9	60.6	34.8	4.5	72.4	155
	10	100.0	100.0	96.8	81.9	61.9	39.4	23.2	4.5		55.9	155
	13	100.0	99.4	87.1	67.7	45.8	21.9	3.9			48.3	155
	16	100.0	96.1	85.8	67.7	41.9	13.5	1.9			46.3	155
	19	100.0	99.4	96.1	86.5	67.1	34.8	9.0	.6		54.8	155
	22	100.0	100.0	99.4	96.8	86.5	68.4	47.1	13.5		66.6	155
TOTALS		100.0	99.4	95.7	86.5	71.4	50.0	31.3	13.2	.7	60.2	1240

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5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 ROTA, SPAIN 73-77 SEP

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	99.3	99.3	91.3	74.7	56.7	34.7	7.3	71.8	150
	04	100.0	100.0	100.0	98.7	89.3	79.3	59.3	35.3	11.3	73.3	150
	07	100.0	100.0	100.0	99.3	94.0	83.3	66.0	48.7	11.3	76.0	150
	10	100.0	100.0	98.0	92.0	72.0	48.0	24.7	6.0	.7	59.6	150
	13	100.0	97.3	92.7	70.0	55.3	30.7	5.3	1.3		51.1	150
	16	100.0	98.7	92.7	73.3	53.3	23.3	8.0	2.0	.7	51.2	150
	19	100.0	100.0	95.3	85.3	71.3	54.7	22.7	4.7		58.6	150
	22	100.0	99.3	99.3	95.3	86.7	72.0	55.3	24.0	2.0	68.9	150
TOTALS		100.0	99.4	97.2	89.2	76.7	58.3	37.3	19.6	4.2	63.8	1200

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5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 (STATION) RUTA, SPAIN (STATION NAME) 73-77 (PERIOD) OCT (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
OCT	01	100.0	100.0	100.0	100.0	95.5	90.3	61.9	34.8	16.1	75.9	155
	04	100.0	100.0	100.0	100.0	96.8	88.4	69.0	45.2	20.0	78.1	155
	07	100.0	100.0	100.0	100.0	98.7	90.3	74.8	58.1	25.8	80.6	155
	10	100.0	100.0	99.4	98.7	91.0	70.3	41.9	21.9	4.5	68.7	155
	13	100.0	100.0	94.8	88.4	66.5	41.9	14.8	7.7		57.2	155
	16	100.0	100.0	95.5	89.0	71.6	38.1	18.7	5.2	.6	57.0	155
	19	100.0	100.0	99.4	97.4	88.4	69.7	39.4	21.3	2.6	67.5	155
	22	100.0	100.0	100.0	99.4	94.2	84.5	56.1	36.8	11.0	74.0	155
TOTALS		100.0	100.0	98.6	96.6	87.8	71.7	47.1	28.9	10.1	69.9	1240

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5706 RELATIVE HUMIDITY JAN 68

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RELATIVE HUMIDITY

13025 ROTA, SPAIN 73-77 NOV

STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	01	100.0	100.0	100.0	100.0	96.0	90.7	76.7	43.3	14.7	78.2	150
	04	100.0	100.0	100.0	100.0	97.3	91.3	78.7	54.0	20.0	80.4	150
	07	100.0	100.0	100.0	100.0	99.3	91.3	80.7	60.0	26.7	81.8	150
	10	100.0	100.0	100.0	98.7	94.7	85.3	68.0	35.3	11.3	75.2	150
	13	100.0	100.0	98.0	90.7	71.3	46.0	20.7	10.7	1.3	59.4	150
	16	100.0	99.3	93.3	86.0	69.3	35.3	16.7	9.3	3.3	57.0	150
	19	100.0	100.0	100.0	96.7	92.0	80.7	48.0	24.0	5.3	70.4	150
	22	100.0	100.0	100.0	98.7	95.3	91.3	70.7	41.3	12.0	77.0	150
TOTALS		100.0	99.9	98.9	96.4	89.4	76.5	57.5	34.7	11.8	72.4	1200

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5706 RELATIVE HUMIDITY JAN 68

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RELATIVE HUMIDITY

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (PERIOD) DEC (MONTH)

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	01	100.0	100.0	100.0	100.0	99.4	97.4	88.4	56.8	20.0	82.1	155
	04	100.0	100.0	100.0	100.0	99.4	98.7	92.3	63.9	21.9	83.6	155
	07	100.0	100.0	100.0	100.0	100.0	98.7	94.2	67.1	27.1	84.5	155
	10	100.0	100.0	100.0	100.0	99.4	98.1	85.8	58.1	21.3	81.9	155
	13	100.0	100.0	100.0	100.0	91.6	71.0	45.2	23.2	7.1	69.8	155
	16	100.0	100.0	100.0	94.8	80.6	61.9	38.1	21.9	4.5	65.9	155
	19	100.0	100.0	100.0	100.0	100.0	86.5	63.2	38.1	7.7	75.3	155
	22	100.0	100.0	100.0	100.0	99.4	98.1	80.0	52.9	18.7	80.4	155
TOTALS		100.0	100.0	100.0	99.4	96.2	88.8	73.4	47.8	16.0	77.9	1240

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5706 RELATIVE HUMIDITY JAN 68

PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

RELATIVE HUMIDITY

13025 ROTA, SPAIN 73-77 ALL
STATION STATION NAME PERIOD MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	100.0	99.5	96.8	88.8	73.6	48.3	23.1	79.1	1240
FEB		100.0	100.0	99.8	98.7	95.0	86.4	66.6	38.8	13.7	76.0	1128
MAR		100.0	100.0	99.2	97.1	89.2	75.7	56.4	32.5	9.9	71.9	1240
APR		100.0	99.7	96.7	91.9	83.5	70.3	48.6	28.1	7.9	68.6	1200
MAY		100.0	99.6	97.7	91.5	82.1	63.6	40.1	14.4	1.6	64.7	1240
JUN		100.0	99.9	96.7	91.8	81.2	63.3	38.5	18.5	2.3	64.6	1200
JUL		100.0	99.3	94.2	86.1	73.1	54.2	34.7	16.1	2.7	61.4	1240
AUG		100.0	99.4	95.7	86.5	71.4	50.0	31.3	13.2	.7	60.2	1240
SEP		100.0	99.4	97.2	89.2	76.7	58.3	37.3	19.6	4.2	63.8	1200
OCT		100.0	100.0	98.6	96.6	87.8	71.7	47.1	28.9	10.1	69.9	1240
NOV		100.0	99.9	98.9	96.4	89.4	76.5	57.5	34.7	11.8	72.4	1200
DEC		100.0	100.0	100.0	99.4	96.2	88.8	73.4	47.8	16.0	77.9	1240
TOTALS		100.0	99.8	97.9	93.7	85.2	70.6	50.4	28.4	8.7	69.2	14608

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5706 RELATIVE HUMIDITY JAN 68

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PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) JANUARY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71	25,0		25,0					25,0	25,0	4	,3
62 TO 66	7,4	12,8	12,8	19,1	10,6	11,7	22,3	1,1	2,1	94	7,6
57 TO 61	5,6	9,1	6,2	8,2	10,0	24,0	24,6	8,5	3,8	341	27,5
52 TO 56	10,9	14,8	12,3	13,7	4,6	5,3	13,4	19,0	6,0	284	22,9
47 TO 51	17,9	19,7	31,6	3,4	,4	,4	1,3	14,1	11,1	234	18,9
42 TO 46	13,7	28,3	42,4	1,5		,5		2,4	11,2	205	16,5
37 TO 41	13,6	33,3	50,0	1,5					1,5	66	5,3
32 TO 36	33,3	33,3	25,0						8,3	12	1,0
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
−3 TO 1											
−8 TO−4											
−13 TO −9											
−18 TO−14											
−23 TO−19											
−28 TO−24											
−33 TO−29											
−38 TO−34											
−43 TO−39											
−48 TO−44											
−53 TO−49											
−58 TO−54											
−59 & LWR											
TOTALS	11,4	17,3	21,5	7,8	4,7	8,9	11,8	9,9	6,8	1240	100,0

NAVWEASERVCOM

5709 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025	ROTA, SPAIN	JAN 1973-DEC 1977	FEBRUARY	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71		30,8	15,4	15,4	30,8		7,7			13	1,2
62 TO 66	2,2	8,6	21,5	16,1	12,9	11,8	14,0	5,4	7,5	93	8,2
57 TO 61	3,9	6,3	10,1	9,3	10,4	17,9	29,3	10,4	2,4	335	29,7
52 TO 56	12,3	7,9	12,6	8,8	7,1	5,5	16,4	21,6	7,7	365	32,4
47 TO 51	17,4	15,9	26,7	7,7	1,0	,5	4,6	16,9	9,2	195	17,3
42 TO 46	20,2	35,1	33,0	1,1			1,1	3,2	6,4	94	8,3
37 TO 41	20,0	43,3	30,0						6,7	30	2,7
32 TO 36	33,3	33,3							33,3	3	,3
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
−3 TO 1											
−8 TO −4											
−13 TO −9											
−18 TO −14											
−23 TO −19											
−28 TO −24											
−33 TO −29											
−38 TO −34											
−43 TO −39											
−48 TO −44											
−53 TO −49											
−58 TO −54											
−59 & LWR											
TOTALS	10,6	12,4	17,2	8,9	7,0	8,2	16,1	13,7	6,2	1128	100,0

NAVWEASERVCOM

570 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) MARCH (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76		11,1	11,1	33,3	44,4					9	,7
67 TO 71	6,4	8,5	6,4	31,9	21,3	8,5	8,5	4,3	4,3	47	3,8
62 TO 66	6,3	4,2	6,9	24,3	10,4	12,5	22,9	11,1	1,4	144	11,6
57 TO 61	3,7	4,3	7,1	13,9	9,7	8,0	33,5	17,0	2,8	352	28,4
52 TO 56	11,3	8,6	10,0	16,0	5,0	6,0	18,1	22,8	4,2	381	30,7
47 TO 51	25,5	16,2	28,4	5,4	1,5	,5	2,9	11,3	8,3	204	16,5
42 TO 46	26,1	21,6	31,8	2,3			1,1	4,5	12,5	88	7,1
37 TO 41	20,0	26,7	40,0	6,7					6,7	15	1,2
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	11,8	8,6	13,6	14,3	6,9	6,0	18,6	15,5	4,8	1240	100,0

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5709 FREQ. - TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

12023 STATION | ROTA, SPAIN STATION NAME | JAN 1973-DEC 1977 YEARS | APRIL MONTH | ALL HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86				100,0						2	,2
77 TO 81			18,8	37,5	12,5	25,0	6,3			16	1,3
72 TO 76	2,6		15,8	36,8	5,3	7,9	26,3	5,3		38	3,2
67 TO 71	2,5	5,1	15,2	11,4	12,7	20,3	21,5	10,1	1,3	79	6,6
62 TO 66	2,0	3,6	7,7	13,0	9,3	15,0	36,4	9,3	3,6	247	20,6
57 TO 61	3,7	4,9	8,1	13,0	6,6	10,1	34,6	14,7	4,3	347	28,9
52 TO 56	6,7	8,9	21,1	8,1	4,1	3,3	14,1	20,7	13,0	270	22,5
47 TO 51	9,7	13,1	40,7	3,4	2,1	,7	1,4	9,7	19,3	145	12,1
42 TO 46	22,0	24,0	50,0						4,0	50	4,2
37 TO 41	16,7	66,7							16,7	6	,5
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5,4	7,4	17,4	11,3	6,2	8,8	23,2	12,8	7,5	1200	100,0

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5709 FREQ. AIR TEMP. WIND DIR. JAN. 68

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13089 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) MAY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91		10.0		60.0	30.0					10	.8
82 TO 86			10.7	50.0	17.9	3.6	14.3	3.6		28	2.3
77 TO 81	7.9	5.3	5.3	34.2	2.6	7.9	23.7	10.5	2.6	38	3.1
72 TO 76	2.9	2.9	13.3	14.3	9.5	8.6	31.4	14.3	2.9	105	8.5
67 TO 71	3.0	3.4	6.4	6.4	10.6	22.0	36.0	10.6	1.7	236	19.0
62 TO 66	3.4	3.4	3.9	7.3	11.0	25.8	30.8	9.4	5.0	383	30.9
57 TO 61	6.3	4.6	10.2	4.2	5.6	16.1	27.0	18.6	7.4	285	23.0
52 TO 56	12.0	12.0	30.8	5.1	1.7	2.6	1.7	18.8	15.4	117	9.4
47 TO 51	21.1	18.4	34.2	2.6				7.9	15.8	38	3.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5.3	4.9	10.2	8.9	8.4	17.2	26.5	12.8	5.8	1240	100.0

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5708 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) JUNE (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96				50,0		25,0		25,0		4	,3
87 TO 91	5,6		11,1	50,0	22,2	5,6		5,6		18	1,5
82 TO 86			7,9	38,2	14,5	11,8	21,1	6,6		76	6,3
77 TO 81	,9	4,5	4,5	18,0	16,2	15,3	30,6	7,2	2,7	111	9,3
72 TO 76	,8	1,5	4,6	15,7	15,3	21,5	35,2	3,4	1,9	261	21,8
67 TO 71	1,5	2,7	7,4	11,8	13,6	18,9	31,3	4,7	8,3	339	28,3
62 TO 66	3,7	3,0	18,3	3,7	14,2	8,2	29,9	10,1	9,0	268	22,3
57 TO 61	6,6	4,4	34,1	3,3		4,4	14,3	15,4	17,6	91	7,6
52 TO 56	10,3	10,3	48,3	3,4	3,4		6,9	3,4	13,8	29	2,4
47 TO 51		66,7	33,3							3	,3
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	2,3	2,9	12,1	12,9	13,7	14,5	28,6	6,8	6,7	1200	100,0

NAVWEASERVCOM

5709 FREQ. OF TEMP. VS. WIND DIR. 5-68

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) JULY (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106	33,3			33,3			33,3			3	,2
97 TO 101				14,3	28,6	7,1	35,7	14,3		14	1,1
92 TO 96	5,3			34,2	34,2	2,6	10,5	13,2		38	3,1
87 TO 91	1,2	2,4	7,3	28,0	13,4	6,1	26,8	14,6		82	6,6
82 TO 86	1,5	3,7	11,1	20,0	7,4	11,9	33,3	11,1		135	10,9
77 TO 81	2,2	1,8	3,1	14,8	8,5	17,9	35,9	11,7	4,0	223	18,0
72 TO 76	4,5	1,5	7,2	11,7	17,1	12,0	32,7	9,0	4,2	333	26,9
67 TO 71	6,3	3,3	11,9	8,1	10,7	6,7	27,8	13,0	12,2	270	21,8
62 TO 66	9,8	5,7	26,0	8,9	4,1	2,4	7,3	14,6	21,1	123	9,9
57 TO 61	15,8		68,4	5,3				10,5		19	1,5
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
–3 TO 1											
–8 TO –4											
–13 TO –9											
–18 TO –14											
–23 TO –19											
–28 TO –24											
–33 TO –29											
–38 TO –34											
–43 TO –39											
–48 TO –44											
–53 TO –49											
–58 TO –54											
–59 & LWR											
TOTALS	4,7	2,6	10,4	13,9	11,9	10,0	28,2	11,7	6,6	1240	100,0

NAVWEASERVCOM

5709 FREQ. AIR TEMPS. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025	ROTA, SPAIN	JAN 1973-DEC 1977	AUGUST	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106		50.0					50.0			2	.2
97 TO 101	25.0		25.0	50.0						4	.3
92 TO 96	4.9	4.9	4.9	31.7	26.8	4.9	9.8	12.2		41	3.3
87 TO 91	4.5	4.5	4.5	11.4	14.8	10.2	39.8	8.0	2.3	88	7.1
82 TO 86	1.4	4.7	4.7	16.9	6.1	14.9	42.6	8.1	.7	148	11.9
77 TO 81	3.1	6.1	5.7	10.3	10.3	15.3	36.8	8.4	3.8	261	21.0
72 TO 76	2.3	2.0	6.8	9.3	18.4	15.0	26.6	11.9	7.6	353	28.5
67 TO 71	7.1	4.9	19.1	5.8	10.2	7.6	14.7	12.9	17.8	225	18.1
62 TO 66	19.2	10.1	32.3	2.0	3.0		1.0	15.2	17.2	99	8.0
57 TO 61	36.8		47.4					10.5	5.3	19	1.5
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5.4	4.7	11.0	10.1	12.2	11.5	26.4	10.8	7.9	1240	100.0

NAVWEASERVCOM

5709 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

12023 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) SEPTEMBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96			100.0							1	.1
87 TO 91	8.3			54.2	29.2			4.2	4.2	24	2.0
82 TO 86	1.5	4.6	4.6	43.1	15.4	4.6	15.4	9.2	1.5	65	5.4
77 TO 81		2.6	6.6	19.2	5.3	8.6	45.7	10.6	1.3	151	12.6
72 TO 76	2.2	3.1	7.7	13.6	7.7	12.7	37.5	13.0	2.5	323	26.9
67 TO 71	4.2	3.0	6.6	5.4	10.5	11.7	34.4	15.0	9.3	334	27.8
62 TO 66	14.5	10.2	21.0	4.3	3.8	2.7	9.1	16.1	18.3	186	15.5
57 TO 61	21.6	13.4	29.9	6.2	2.1	1.0		9.3	16.5	97	8.1
52 TO 56	13.3	33.3	33.3					6.7	13.3	15	1.3
47 TO 51		50.0	25.0	25.0						4	.3
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	6.2	5.5	11.3	12.3	7.8	8.5	27.7	12.9	7.9	1200	100.0

NAVWEASERVCOM

5709 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025	ROTA, SPAIN	JAN 1973-DEC 1977	OCTOBER	ALL
STATION	STATION NAME	YEARS	MONTH	HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86		25.0	8.3	33.3	16.7	8.3	8.3			12	1.0
77 TO 81		8.3	11.1	33.3	25.0	8.3	11.1	2.8		36	2.9
72 TO 76	1.5	9.2	6.9	26.9	15.4	8.5	21.5	6.9	3.1	130	10.5
67 TO 71	2.1	3.5	3.1	21.9	11.8	14.9	27.4	11.5	3.8	288	23.2
62 TO 66	7.5	5.7	10.0	17.5	5.9	8.4	22.9	13.2	8.9	371	29.9
57 TO 61	17.1	11.8	26.3	6.1	1.3	1.8	11.8	14.9	8.8	228	18.4
52 TO 56	21.6	20.7	24.3	7.2	1.8	.9	3.6	10.8	9.0	111	9.0
47 TO 51	18.2	32.7	25.5	9.1			1.8	3.6	9.1	55	4.4
42 TO 46	25.0	12.5	62.5							8	.6
37 TO 41		100.0								1	.1
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	9.0	9.6	13.4	16.6	7.4	7.6	18.5	11.3	6.7	1240	100.0

NAVWEASERVCOM

5709/5 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) NOVEMBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	50,0								50,0	2	,2
77 TO 81		33,3		16,7		16,7	33,3			6	,5
72 TO 76		18,5	11,1	44,4		3,7	14,8	7,4		27	2,3
67 TO 71	11,7	11,7	8,5	22,3	13,8	7,4	11,7	9,6	3,2	94	7,8
62 TO 66	8,6	10,0	7,1	20,0	17,1	4,3	16,8	12,9	3,2	280	23,3
57 TO 61	10,0	12,0	16,8	8,2	8,6	4,5	12,7	19,6	7,6	291	24,3
52 TO 56	18,1	26,2	26,9	1,9	,4		3,5	12,3	10,8	260	21,7
47 TO 51	25,4	35,5	26,8	2,2				2,2	8,0	136	11,5
42 TO 46	7,4	46,9	38,3						7,4	81	6,8
37 TO 41		45,0	35,0					5,0	15,0	20	1,7
32 TO 36			100,0							1	,1
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO-4											
-13 TO -9											
-18 TO-14											
-23 TO-19											
-28 TO-24											
-33 TO-29											
-38 TO-34											
-43 TO-39											
-48 TO-44											
-53 TO-49											
-58 TO-54											
-59 & LWR											
TOTALS	12,8	20,4	18,8	10,2	7,3	2,8	9,2	11,7	6,9	1200	100,0

NAVWEASERVCOM

5709 FREQ. TEMP. VS. WIND DIR. JAN. 68

2

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025 (STATION) ROTA, SPAIN (STATION NAME) JAN 1973-DEC 1977 (YEARS) DECEMBER (MONTH) ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76		25.0	25.0	25.0					25.0	4	.3
67 TO 71	3.8	11.5	23.1	34.6	7.7			7.7	11.5	26	2.1
62 TO 66	5.6	5.0	10.6	19.6	19.0	18.4	17.3	2.2	2.2	179	14.4
57 TO 61	4.0	6.8	14.5	25.6	13.4	10.8	11.4	8.5	4.8	351	28.3
52 TO 56	9.3	16.0	24.2	10.0	2.2	2.6	13.8	12.6	9.3	269	21.7
47 TO 51	10.7	33.9	32.1	3.6	.9		.9	8.9	8.9	224	18.1
42 TO 46	12.2	41.2	37.2	3.4				1.4	4.7	148	11.9
37 TO 41	10.8	45.9	35.1						8.1	37	3.0
32 TO 36		100.0								2	.2
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	7.7	19.0	22.7	14.1	7.3	6.3	8.9	7.4	6.5	1240	100.0

NAVWEASERVCOM

5709 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13025 (STATION) | ROTA, SPAIN (STATION NAME) | JAN 1973-DEC 1977 (YEARS) | ALL (MONTH) | ALL (HOURS (L.S.T.))

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106	20,0	20,0		20,0			40,0			5	,0
97 TO 101	5,6		5,6	22,2	22,2	5,6	27,8	11,1		18	,1
92 TO 96	4,8	2,4	3,6	33,3	28,6	4,8	9,5	13,1		84	,6
87 TO 91	3,6	3,2	5,4	27,5	17,1	6,8	25,7	9,5	1,4	222	1,5
82 TO 86	1,3	3,8	7,5	27,6	10,0	11,1	29,7	8,3	,6	466	3,2
77 TO 81	2,0	4,3	5,5	16,7	10,0	14,4	35,0	9,1	3,0	842	5,8
72 TO 76	2,4	3,0	7,5	15,0	14,1	13,5	31,0	9,5	3,9	1583	10,8
67 TO 71	4,2	4,2	9,1	11,6	11,8	13,3	26,9	10,7	8,0	1955	13,4
62 TO 66	6,7	6,1	12,3	12,8	10,5	11,4	22,1	10,5	7,5	2467	16,9
57 TO 61	7,1	7,3	13,8	11,0	7,9	11,3	22,3	13,6	5,8	2756	18,9
52 TO 56	12,0	13,1	18,7	9,6	3,9	3,7	12,3	18,0	8,7	2101	14,4
47 TO 51	17,7	22,8	30,7	4,6	,9	,3	1,9	10,6	10,6	1240	8,5
42 TO 46	15,9	32,9	38,9	1,6		,1	,3	2,1	8,2	674	4,6
37 TO 41	13,1	40,0	38,9	1,1				,6	6,3	175	1,2
32 TO 36	27,8	38,9	22,2						11,1	18	,1
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
−3 TO 1											
−8 TO−4											
−13 TO −9											
−18 TO−14											
−23 TO−19											
−28 TO−24											
−33 TO−29											
−38 TO−34											
−43 TO−39											
−48 TO−44											
−53 TO−49											
−58 TO−54											
−59 & LWR											
TOTALS	7,7	9,6	15,0	11,8	8,4	9,2	20,3	11,4	6,7	14908	100,0

NAVWEASERVCOM

5705/1 FREQ. AIR TEMP. VS. WIND DIR. JAN. 68

NWSD, Federal Building

Asheville, N. C.

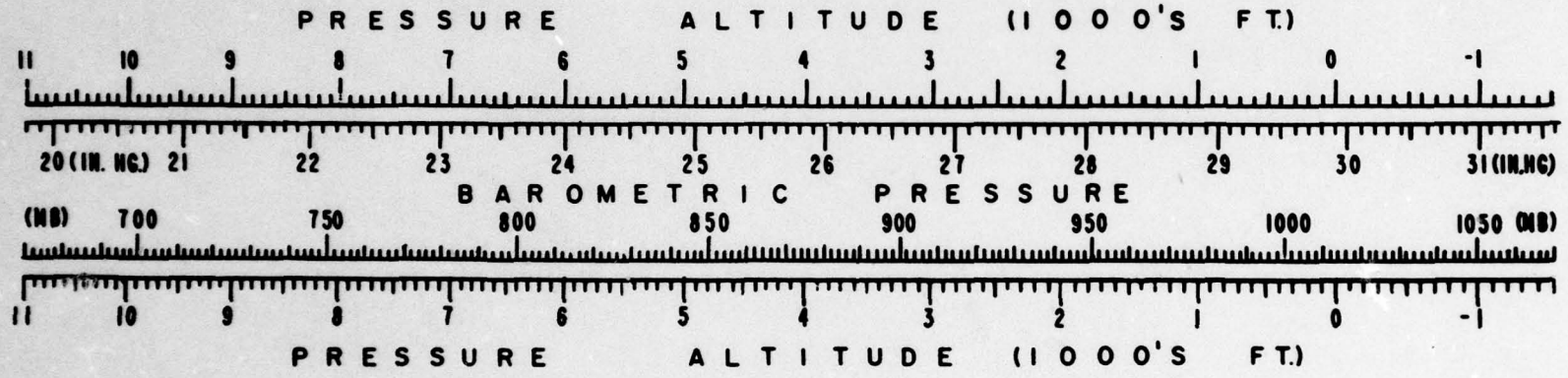
PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.

2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	30.094	30.009	29.958	29.880	29.892	29.915	29.884	29.884	29.932	29.938	30.035	29.989	29.950
	S. D.	.191	.194	.184	.144	.106	.079	.064	.058	.086	.132	.140	.238	.159
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
04	MEAN	30.080	29.989	29.933	29.853	29.866	29.888	29.862	29.864	29.913	29.918	30.017	29.973	29.929
	S. D.	.191	.197	.186	.146	.109	.084	.065	.059	.087	.133	.142	.239	.162
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
07	MEAN	30.069	29.981	29.933	29.854	29.873	29.900	29.872	29.870	29.919	29.922	30.015	29.962	29.930
	S. D.	.193	.200	.192	.147	.110	.083	.064	.059	.089	.139	.144	.243	.162
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
10	MEAN	30.102	30.014	29.966	29.880	29.896	29.921	29.895	29.896	29.953	29.956	30.052	29.992	29.960
	S. D.	.196	.199	.198	.151	.111	.080	.065	.059	.090	.143	.146	.249	.166
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
13	MEAN	30.103	30.023	29.966	29.880	29.899	29.926	29.896	29.895	29.949	29.950	30.044	29.989	29.960
	S. D.	.200	.196	.198	.147	.108	.078	.064	.060	.085	.140	.145	.254	.165
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
16	MEAN	30.057	29.979	29.926	29.851	29.874	29.902	29.867	29.863	29.913	29.915	30.003	29.949	29.925
	S. D.	.196	.191	.190	.140	.104	.077	.065	.060	.081	.134	.144	.246	.159
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
19	MEAN	30.070	29.986	29.924	29.843	29.860	29.885	29.846	29.843	29.904	29.916	30.014	29.962	29.921
	S. D.	.193	.188	.187	.137	.104	.077	.067	.060	.084	.134	.144	.241	.161
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
22	MEAN	30.092	30.011	29.952	29.875	29.885	29.910	29.870	29.876	29.935	29.942	30.037	29.983	29.947
	S. D.	.192	.188	.184	.138	.103	.076	.063	.059	.088	.132	.145	.238	.160
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
ALL HOURS	MEAN	30.083	29.999	29.945	29.864	29.881	29.906	29.874	29.874	29.927	29.932	30.027	29.975	29.940
	S. D.	.194	.194	.190	.144	.107	.080	.066	.062	.088	.136	.144	.243	.162
	TOTAL OBS	1240	1128	1240	1200	1240	1200	1240	1240	1200	1240	1200	1240	14608

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MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

13025 (STATION) ROTA, SPAIN (STATION NAME) 73-77 (YEARS)

HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN	1022.6	1019.7	1017.9	1015.3	1015.7	1016.5	1015.5	1015.5	1017.1	1017.3	1020.6	1019.0	1017.7
	S. D.	6.479	6.610	6.261	4.881	3.580	2.660	2.126	1.976	2.870	4.453	4.753	8.074	5.404
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
04	MEAN	1022.1	1019.0	1017.1	1014.4	1014.8	1015.6	1014.7	1014.8	1016.4	1016.6	1020.0	1018.5	1017.0
	S. D.	6.476	6.666	6.323	4.956	3.673	2.841	2.167	1.979	2.927	4.496	4.819	8.109	5.492
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
07	MEAN	1021.8	1018.7	1017.1	1014.5	1015.1	1016.0	1015.1	1015.0	1016.7	1016.7	1019.9	1018.1	1017.0
	S. D.	6.552	6.807	6.500	4.994	3.749	2.799	2.142	1.980	3.022	4.674	4.851	8.244	5.489
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
10	MEAN	1022.9	1019.9	1018.2	1015.3	1015.9	1016.7	1015.8	1015.9	1017.8	1017.9	1021.2	1019.1	1018.0
	S. D.	6.664	6.753	6.749	5.124	3.764	2.698	2.179	1.986	3.041	4.831	4.928	8.448	5.620
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
13	MEAN	1022.9	1020.2	1018.2	1015.3	1016.0	1016.9	1015.9	1015.8	1017.6	1017.7	1020.9	1019.0	1018.0
	S. D.	6.790	6.637	6.728	4.989	3.660	2.625	2.140	2.016	2.868	4.730	4.924	8.613	5.599
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
16	MEAN	1021.3	1018.7	1016.9	1014.3	1015.1	1016.1	1014.9	1014.8	1016.4	1016.5	1019.5	1017.6	1016.8
	S. D.	6.660	6.486	6.447	4.742	3.502	2.584	2.170	2.034	2.739	4.532	4.910	8.383	5.385
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
19	MEAN	1021.8	1018.9	1016.8	1014.1	1014.6	1015.5	1014.2	1014.1	1016.1	1016.5	1019.9	1018.1	1016.7
	S. D.	6.554	6.372	6.344	4.653	3.507	2.595	2.230	2.020	2.818	4.506	4.889	8.201	5.477
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
22	MEAN	1022.5	1019.8	1017.8	1015.1	1015.5	1016.4	1015.0	1015.2	1017.2	1017.4	1020.7	1018.9	1017.6
	S. D.	6.518	6.371	6.264	4.697	3.482	2.575	2.120	1.961	2.973	4.452	4.918	8.076	5.417
	TOTAL OBS	155	141	155	150	155	150	155	155	150	155	150	155	1826
ALL HOURS	MEAN	1022.2	1019.4	1017.5	1014.8	1015.4	1016.2	1015.1	1015.1	1016.9	1017.1	1020.3	1018.6	1017.4
	S. D.	6.591	6.592	6.460	4.893	3.635	2.708	2.221	2.067	2.954	4.603	4.890	8.263	5.508
	TOTAL OBS	1240	1128	1240	1200	1240	1200	1240	1240	1200	1240	1200	1240	14608

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